

```

UUU      UUU      AAAAAAAAAA      FFFFFFFFFFFFFFFFFF
UUU      UUU      AAAAAAAAAA      FFFFFFFFFFFFFFFFFF
UUU      UUU      AAAAAAAAAA      FFFFFFFFFFFFFFFFFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFFFFFFFFFFFFFFFFF
UUU      UUU      AAA          AAA      FFFFFFFFFFFFFFFFFF
UUU      UUU      AAA          AAA      FFFFFFFFFFFFFFFFFF
UUU      UUU      AAAAAAAAAAAAAAAAAA      FFF
UUU      UUU      AAAAAAAAAAAAAAAAAA      FFF
UUU      UUU      AAAAAAAAAAAAAAAAAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUU      UUU      AAA          AAA      FFF
UUUUUUUUUUUUUUUUUU      AAA      AAA      FFF
UUUUUUUUUUUUUUUUUU      AAA      AAA      FFF
UUUUUUUUUUUUUUUUUU      AAA      AAA      FFF

```

[illegible]

```
UU      UU      AAAAAA      FFFFFFFF      MM      MM      AAAAAA      IIIIII      NN      NN
UU      UU      AAAAAA      FFFFFFFF      MM      MM      AAAAAA      IIIIII      NN      NN
UU      UU      AA      AA      FF      M      M      AA      AA      II      NN      NN
UU      UU      AA      AA      FF      M      M      AA      AA      II      NN      NN
UU      UU      AA      AA      FF      MM      MM      AA      AA      II      NNNN      NN
UU      UU      AA      AA      FF      MM      MM      AA      AA      II      NNNN      NN
UU      UU      AA      AA      FFFFFFFF      MM      MM      AA      AA      II      NN      NN
UU      UU      AA      AA      FFFFFFFF      MM      MM      AA      AA      II      NN      NN
UU      UU      AAAAAAAAAA      FF      MM      MM      AAAAAAAAAA      II      NN      NNNN
UU      UU      AAAAAAAAAA      FF      MM      MM      AAAAAAAAAA      II      NN      NNNN
UU      UU      AA      AA      FF      MM      MM      AA      AA      II      NN      NN
UU      UU      AA      AA      FF      MM      MM      AA      AA      II      NN      NN
UUUUUUUUUU      AA      AA      FF      MM      MM      AA      AA      IIIIII      NN      NN
UUUUUUUUUU      AA      AA      FF      MM      MM      AA      AA      IIIIII      NN      NN
```

```
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
```



```
1 0001 0 module uafmain (main = start,  
2 0002 0 language (bliss32),  
3 0003 0 ident = 'V04-000',  
4 0004 0 addressing_mode (external=general, nonexternal=general)  
5 0005 0 ) =  
6 0006 1 begin  
7 0007 1  
8 0008 1  
9 0009 1 *****  
10 0010 1 *  
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *  
12 0012 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *  
13 0013 1 * ALL RIGHTS RESERVED. *  
14 0014 1 *  
15 0015 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *  
16 0016 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *  
17 0017 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *  
18 0018 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *  
19 0019 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *  
20 0020 1 * TRANSFERRED. *  
21 0021 1 *  
22 0022 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *  
23 0023 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *  
24 0024 1 * CORPORATION. *  
25 0025 1 *  
26 0026 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *  
27 0027 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *  
28 0028 1 *  
29 0029 1 *****  
30 0030 1  
31 0031 1  
32 0032 1 ++  
33 0033 1 FACILITY: System Management Utility Program  
34 0034 1  
35 0035 1 ABSTRACT:  
36 0036 1  
37 0037 1 This program allows the system manager to maintain the user  
38 0038 1 authorization file which contains usernames, passwords, quotas,  
39 0039 1 and defaults. The following functions are provided:  
40 0040 1  
41 0041 1 ADD - add a new user record to the authorization file (UAF)  
42 0042 1 COPY - copy a user record, give copied record a new name  
43 0043 1 DEFAULT - change a default value  
44 0044 1 EXIT - exit program and update file  
45 0045 1 HELP - ask for explanation  
46 0046 1 LIST - complete list of records to file  
47 0047 1 MODIFY - change one or more values for a user  
48 0048 1 REMOVE - remove a user record  
49 0049 1 RENAME - rename a user record (COPY; REMOVE)  
50 0050 1 SHOW - display the values from a user record  
51 0051 1  
52 0052 1 ENVIRONMENT:  
53 0053 1  
54 0054 1 AUTHOR: Henry M. Levy, CREATION DATE: 1-June-1977  
55 0055 1  
56 0056 1 MODIFIED BY:  
57 0057 1
```

58	0058	1	V03-024	JRL0036	John R. Lawson, Jr.	07-Aug-1984 17:08
59	0059	1			Hide UPGRADE, DOWNGRADE, TMPJNL, PRMJNL privileges. This	
60	0060	1			is a temporary work-around; it is marked in the right-hand	
61	0061	1			margin with !** in routine PRINT_PRIV.	
62	0062	1				
63	0063	1	V03-023	JRL0027	John R. Lawson, Jr.	25-Jul-1984 11:01
64	0064	1			Add MODIFY/SYSTEM_PASSWORD=xxxxx to modify the system	
65	0065	1			password.	
66	0066	1				
67	0067	1	V03-022	JRL0029	John R. Lawson, Jr.	25-Jul-1984 10:47
68	0068	1			Find better names for UAF\$_NEWMSG10 and UAF\$_NEWMSG15	
69	0069	1				
70	0070	1	V03-021	JRL0020	John R. Lawson, Jr.	09-Jul-1984 15:51
71	0071	1			Bark when a proxy name is changed with the RENAME command.	
72	0072	1				
73	0073	1	V03-020	JRL0017	John R. Lawson, Jr.	02-Jul-1984 22:13
74	0074	1			Modify GET_UAF_RECORD so that it does not get the system	
75	0075	1			password record.	
76	0076	1				
77	0077	1	V03-029	JRL0013	John R. Lawson, Jr.	02-Jul-1984 12:28
78	0078	1			Display privileges of users in groups less than .EXE\$GL_SYSUIC	
79	0079	1			as 'ALL'.	
80	0080	1				
81	0081	1	V03-028	JRL0010	John R. Lawson, Jr.	25-Jun-1984 15:56
82	0082	1			Changed 'X'/'-' to '#'/'-' in primary/secondary access	
83	0083	1			display.	
84	0084	1				
85	0085	1	V03-027	JRL0008	John R. Lawson, Jr.	21-Jun-1984 14:00
86	0086	1			Add support for the /PWDEXPIRED qualifier (pre-expired	
87	0087	1			password).	
88	0088	1				
89	0089	1	V03-026	JRL0006	John R. Lawson, Jr.	20-Jun-1984 12:28
90	0090	1			Obliterate operator's console messages	
91	0091	1				
92	0092	1	V03-025	JRL0002	John R. Lawson, Jr.	15-Jun-1984 09:55
93	0093	1			Change all internal messages to calls to LIB\$SIGNAL and	
94	0094	1			the message utility -- place all messages in UAFMSG.MSG	
95	0095	1				
96	0096	1	V03-024	LY0494	Larry Yetto	11-JUN-1984 12:59
97	0097	1			Fix noise error message coming from ADD/ID/USER=* caused	
98	0098	1			by a flag not properly being set	
99	0099	1				
100	0100	1	V03-023	MHB0150	Mark Bramhall	2-May-1984
101	0101	1			Remove unused reference to TPARSE definitions.	
102	0102	1			Add DISPECONNECT flag.	
103	0103	1			Add security auditing for SYSUAF/NETUAF changes.	
104	0104	1				
105	0105	1	V03-022	LY0474	Larry Yetto	9-APR-1984 08:32
106	0106	1			Zero the login failure and last login fields	
107	0107	1			on a copy operation.	
108	0108	1				
109	0109	1	V03-021	LY0466	Larry Yetto	22-MAR-1984 13:52
110	0110	1			Add support for the rights data base functions	
111	0111	1				
112	0112	1	V03-020	ACG0397	Andrew C. Goldstein,	24-Feb-1984 23:21
113	0113	1			Clean up display formatting	
114	0114	1				

115 0115 1
116 0116 1
117 0117 1
118 0118 1
119 0119 1
120 0120 1
121 0121 1
122 0122 1
123 0123 1
124 0124 1
125 0125 1
126 0126 1
127 0127 1
128 0128 1
129 0129 1
130 0130 1
131 0131 1
132 0132 1
133 0133 1
134 0134 1
135 0135 1
136 0136 1
137 0137 1
138 0138 1
139 0139 1
140 0140 1
141 0141 1
142 0142 1
143 0143 1
144 0144 1
145 0145 1
146 0146 1
147 0147 1
148 0148 1
149 0149 1
150 0150 1
151 0151 1
152 0152 1
153 0153 1
154 0154 1
155 0155 1
156 0156 1
157 0157 1
158 0158 1
159 0159 1
160 0160 1
161 0161 1
162 0162 1
163 0163 1
164 0164 1
165 0165 1
166 0166 1
167 0167 1
168 0168 1
169 0169 1
170 0170 1
171 0171 1

V03-019 ACG0397 Andrew C. Goldstein, 6-Feb-1984 16:27
Add DISREPORT to flags, clean up record locking

V03-018 ACG0388 Andrew C. Goldstein, 12-Jan-1984 19:21
Add command input to handle new UAF features;
general code cleanup

V03-017 ACG0385 Andrew C. Goldstein, 6-Jan-1984 18:28
V4 UAF format change; remove read-only under installed
SYSPRV feature; misc. code cleanups

V03-016 TMK0001 Todd M. Katz 10-Oct-1983
Add JTQUOTA (job-wide logical name table creation quota)
qualifier.

V03-015 LMP0153 L. Mark Pilant, 13-Sep-1983 11:57
Add minimal support for alphanumeric UICs.

014 JWT0105 Jim Teague 30-Mar-1983
Small changes to CLITABLES implementation.

013 JWT0104 Jim Teague 29-Mar-1983
Add CLITABLES qualifier.

012 WMC0001 Wayne Cardoza 15-Mar-1983
Add MAXDETACH qualifier.

011 JWT0097 Jim Teague 23-Feb-1983
Fix RENAME problem with proxy entries.

010 JWT0096 Jim Teague 08-Feb-1983
Log NETUAF changes to console, too.

009 JWT0087 Jim Teague 11-Jan-1983
Change SYSWSQUOTA for created UAFs to 350

008 JWT0082 Jim Teague 05-Jan-1983
Fix problem with LIST/PROXY.

007 JWT0079 Jim Teague 15-Dec-1982
Enlarge output field for BYTLM; reset pending
mail count for COPY operations.

006 JWT0072 Jim Teague 03-Dec-1982
Add global longword which can be patched to
enable/disable console logging of SYSUAF mods.

005 JWT0069 Jim Teague 24-Nov-1982
Allow redefinition of sys\$output.

004 JWT0057 Jim Teague 21-Sep-1982
Add a message to tell whether or not NETUAF was
modified.

003 JWT0042 Jim Teague 15-Jul-1982
Make SYSUAF.LIS and NETUAF.LIS world noread.

UAFMAIN
V04-000

K 10
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 Page 4
(1)

: 172 0172 1 !
: 173 0173 1 !
: 174 0174 1 !
: 175 0175 1 !
: 176 0176 1 !
: 177 0177 1 !
: 178 0178 1 !
: 179 0179 1 !
: 180 0180 1 !--

002 JWT0036 Jim Teague 08-Jun-1982
Add full wilddarding to show/proxy

001 JWT0022 Jim Teague 17-Mar-1982
Fix bug that caused failure to repase command line for
wildcard modifications. List default device on its own
line for show/full.


```
182 0181 1 |
183 0182 1 | Require files
184 0183 1 |
185 0184 1 | require
186 0185 1 | 'lib$:uafreq';
187 0281 1 |
188 0282 1 |
189 0283 1 | INCLUDE FILES:
190 0284 1 |
191 0285 1 | library 'SYS$LIBRARY:LIB.L32';
192 0286 1 |
193 0287 1 |
194 0288 1 | TABLE OF CONTENTS:
195 0289 1 |
196 0290 1 |
197 0291 1 | forward routine
198 0292 1 | start,
199 0293 1 | setup : novalue,
200 0294 1 | add_uaf : novalue,
201 0295 1 | add_proxy : novalue,
202 0296 1 | remote_parse,
203 0297 1 | copy_uaf,
204 0298 1 | create_proxy : novalue,
205 0299 1 | modify_uaf : novalue,
206 0300 1 | modify_rec,
207 0301 1 | remove_uaf : novalue,
208 0302 1 | remove_proxy : novalue,
209 0303 1 | rename_uaf : novalue,
210 0304 1 | adjust_proxy : novalue,
211 0305 1 | default_uaf : novalue,
212 0306 1 | list_proxy : novalue,
213 0307 1 | list_uaf : novalue,
214 0308 1 | show_user_uaf : novalue,
215 0309 1 | show_proxy : novalue,
216 0310 1 | locate_proxy,
217 0311 1 | get_proxy_record,
218 0312 1 | display_proxy : novalue,
219 0313 1 | wild_user,
220 0314 1 | display_brief,
221 0315 1 | classify_priv,
222 0316 1 | display_full,
223 0317 1 | display_hours : novalue,
224 0318 1 | convert_time : novalue,
225 0319 1 | print_priv : novalue,
226 0320 1 | build_ini_recs : novalue,
227 0321 1 |
228 0322 1 | get_user_record,
229 0323 1 | locate_user,
230 0324 1 | get_uaf_record,
231 0325 1 | get_cmd_line,
232 0326 1 | ask : novalue,
233 0327 1 | fmt_sys_msg : novalue,
234 0328 1 | faout,
235 0329 1 | help_uaf : novalue,
236 0330 1 | exit_uaf : novalue,
237 0331 1 | SIGNAL SYNTAX : novalue,
238 0332 1 | acc$exit : novalue,
```

```
| controlling code
| open initial files
| insert new user record
| insert new proxy record
| parses "node: : remoteuser"
| copy user record
| create NETUAF.DAT proxy file
| update user record(s)
| update a user record action routine
| remove username from file
| remove a proxy record
| rename user record
| implicitly remove/update proxy record
| change default record
| list proxy entries in NETUAF.LIS
| list file routine
| display user record
| display proxy record at terminal
| access given proxy record(s)
| read single proxy record
| format and output a proxy entry
| user wild card routine
| writes a brief user display
| classifies contents of priv vector
| writes the full user display
| display hourly restrictions
| convert time value to string
| print privilege bits
| build initial file records for default
| and system manager
| get username and lookup record
| lookup user record in UAF
| routine to deal with record locking
| input user command line
| prompt terminal for input
| output system message file message
| output formatted message
| help routine
| normal exit routine
| missing qualifier
| exit and cleanup routine
```

```
: 239      0333 1      uaf$mod_sys_pwd : novalue,      ! modify the system password
: 240      0334 1      security_audit : novalue;      ! Perform a security audit
: 241      0335 1
: 242      0336 1 linkage
: 243      0337 1      fmg_match = jsb (register = 2, register = 3, register = 4,
: 244      0338 1      register = 5) : notused (10, 11);
: 245      0339 1
: 246      0340 1
: 247      0341 1      ! EXTERNAL REFERENCES:
: 248      0342 1
: 249      0343 1
: 250      0344 1 external literal
: 251      0345 1      cli$_bufovf,
: 252      0346 1      cli$_noclint;
: 253      0347 1
: 254      0348 1
: 255      0349 1 external routine
: 256      0350 1      lbr$output_help,
: 257      0351 1      lib$get_foreign,
: 258      0352 1      lib$get_input,
: 259      0353 1      lib$put_output,
: 260      0354 1      fmg$match_name : fmg_match,
: 261      0355 1      cli$dcl_parse,
: 262      0356 1      cli$dispatch,
: 263      0357 1      cli$present,
: 264      0358 1      cli$get_value,
: 265      0359 1      update_record,      ! modify all specified fields
: 266      0360 1      parse_wild,      ! parses a wildcarded user specification
: 267      0361 1      lgishpwd,      ! hash password routine
: 268      0362 1      uaf$add_ident_recbuf,
: 269      0363 1      uaf$build_holder,
: 270      0364 1      uaf$find_uic,
: 271      0365 1      uaf$remove_ident_recbuf,
: 272      0366 1      uaf$write_rights;
: 273      0367 1
: 274      0368 1 external
: 275      0369 1      EXE$GL_SYSUIC : long ,
: 276      0370 1      rdb_header_flag : byte ,
: 277      0371 1      rdb_list_flag : byte ,
: 278      0372 1      attributes : long ,
: 279      0373 1      holder : $bblock[8] ,
: 280      0374 1      ident : $bblock[4] ,
: 281      0375 1      authorize_commands,      ! AUTHORIZE command parse tables
: 282      0376 1      prv$ab_names;      ! address of privilege name table
: 283      0377 1
: 284      0378 1
: 285      0379 1
: 286      0380 1      ! MACROS:
: 287      0381 1
: 288      0382 1      !
: 289      0383 1      macro
: 290      M 0384 1      namelen (x, y) =
: 291      M 0385 1      begin
: 292      M 0386 1      builtin
: 293      M 0387 1      locc;
: 294      M 0388 1      register
: 295      M 0389 1      r0 = 0;
```



```
296 M 0390 1      locc (%ref(' '), %ref(x), y; r0);
297 M 0391 1      x = .r0
298      0392 1      end%,
299      0393 1
300 M 0394 1      cstring[] = (uplit byte (%charcount (%string (%remaining)),
301      0395 1      %string (%remaining)))%,
302      0396 1
303      0397 1      fatal[] = (fmt_sys_msg (%remaining); acc$exit ()),
304      0398 1
305      0399 1      Macros to check for success or failure from RMS
306      0400 1
307      0401 1      rmsbad (string) = (not (rmserr = string)) %,
308      0402 1      rmsok (string) = (rmserr = string) %,
309      0403 1
310      0404 1      Macros to set up and write an FAO string.
311      0405 1
312 M 0406 1      faomac (faomsg)[] =
313 M 0407 1      begin
314 M 0408 1      faodsc[dsc$w_length] = . (faomsg)<0,8>;
315 M 0409 1      faodsc[dsc$a_pointer] = (faomsg) + 1;
316 M 0410 1      $fao (faodsc, rabptr[rab$w_rsz], disdsc $comma (%remaining)
317 M 0411 1      %remaining);
318 M 0412 1      $put (rab = .rabptr);
319      0413 1      end %,
320      0414 1
321      0415 1      $comma[] = , %,
322      0416 1
323 M 0417 1      output_null =
324 M 0418 1      begin
325 M 0419 1      rabptr[rab$w_rsz] = 0;
326 M 0420 1      $put (rab = .rabptr);
327      0421 1      end %,
328      0422 1
329      0423 1
330      0424 1      Macro to create string descriptor for command parameters and
331      0425 1      qualifiers
332      0426 1
333 M 0427 1      sd[a] =
334      0428 1      bind %name ('SD_',a) = $descriptor (a)%;
335      0429 1
336 P 0430 1      sd (
337 P 0431 1      'token1',      'token2',      'brief',      'full',
338 P 0432 1      'add_identifier',      'remove_identifier',
339 P 0433 1      'modify_identifier'
340      0434 1      );
341      0435 1
342      0436 1      field
343      0437 1      descr_fields =      ! Define the fields for a DESCRIPTOR
344      0438 1      set
345      0439 1      length = [dsc$w_length],
346      0440 1      dtype = [dsc$b_dtype],
347      0441 1      class = [dsc$b_class],
348      0442 1      pointer = [dsc$a_pointer]
349      0443 1      tes;
350      0444 1
351      0445 1      macro
352 M 0446 1      statdesc =
```



```
353 M 0447 1 $bblock [dsc$k_s_bln] field (descr_fields)
354 MM 0448 1 preset ( [length] = 0,
355 MM 0449 1 [dtype] = dsc$k_dtype_t,
356 MM 0450 1 [class] = dsc$k_class_s,
357 MM 0451 1 [pointer] = 0);
358 MM 0452 1
359 MM 0453 1 macro
360 M 0454 1 qualstr_desc (string) =
361 MM 0455 1 $bblock [dsc$k_s_bln] field (descr_fields)
362 MM 0456 1 preset ( [length] = (%charcount(string)),
363 MM 0457 1 [dtype] = dsc$k_dtype_t,
364 M 0458 1 [class] = dsc$k_class_s,
365 MM 0459 1 [pointer] = (uplit byte (%string(string)))));
366 MM 0460 1 own
367 MM 0461 1 sd_attrresource : qualstr_desc ('attributes.resource') ;
368 MM 0462 1
369 MM 0463 1
370 MM 0464 1 EQUATED SYMBOLS:
371 MM 0465 1
372 MM 0466 1 literal
373 MM 0467 1 cmdbufmax = 508, ! maximum command length
374 MM 0468 1 false = 0, ! logical false
375 MM 0469 1 true = 1, ! logical true
376 MM 0470 1 update_records = 0, ! flag for proxy file adjustment
377 MM 0471 1 remove_records = 1,
378 MM 0472 1 copy_flag = 1, ! used in routine copy_uaf
379 MM 0473 1 rename_flag = 1, ! used in routine rename_uaf
380 MM 0474 1 byte_length = 8, ! bits per byte
381 MM 0475 1 word_length = 16, ! bits per word
382 MM 0476 1 long_length = 32, ! bits per longword
383 MM 0477 1 retry_rlk = 8, ! number of retries for a locked record
384 MM 0478 1 sleep_rlk = 500, ! ms to sleep before retrying
385 MM 0479 1 cr = 13,
386 MM 0480 1 lf = 10,
387 MM 0481 1 zero = 0,
388 MM 0482 1 cmdbuflen = 1024; ! size of user command buffer
389 MM 0483 1
390 MM 0484 1 global literal
391 MM 0485 1 encrypt = uaf$c_purdy_v, ! encryption algorithm to use
392 MM 0486 1 disbuflen = 132; ! size of display file output buffer
393 MM 0487 1
394 MM 0488 1 bind
395 MM 0489 1 sysuaf_string = uplit byte ('SYSUAF'),
396 MM 0490 1 netuaf_string = uplit byte ('NETUAF'),
397 MM 0491 1 mod_act_dsc = $descriptor ('modified'),
398 MM 0492 1 add_act_dsc = $descriptor ('added'),
399 MM 0493 1 rem_act_dsc = $descriptor ('removed'),
400 MM 0494 1 fao_lin_dsc = $descriptor ('PID= !XL !AS !AS record !AS on !%D'),
401 MM 0495 1 dbl_colon = $descriptor ('::'),
402 MM 0496 1
403 MM 0497 1 Define the system delta time to sleep before retrying to GET a locked record.
404 MM 0498 1
405 MM 0499 1 wakedelta = uplit long (-10*1000*sleep_rlk,-1),
406 MM 0500 1
407 MM 0501 1 Default values for authorization file record. These values are
408 MM 0502 1 only used when a new authorization file is created. If the file
409 MM 0503 1 already exists, the default values are read from the first file
```



```
410 0504 1 record.
411 0505 1
412 0506 1 defuser = cstring ('DEFAULT'), ! default username
413 0507 1 defpass = cstring ('USER'), ! default password
414 0508 1 defclitabl = cstring ('DCLTABLES'), ! default CLI tables
415 0509 1 defact = cstring (''), ! default account name
416 0510 1 defcli = cstring ('DCL'), ! default command interpreter
417 0511 1 defowner = cstring (''), ! owner's name
418 0512 1 deflgicmd = cstring (''), ! default login command file
419 0513 1 defgrp = %'200', ! default group
420 0514 1 defmem = %'200', ! default member
421 0515 1 defdir = cstring ('[USER]'), ! default directory name
422 0516 1 defdev = cstring (''), ! default device name
423 0517 1 defbiolm = 6, ! default buffered I/O limit
424 0518 1 defbytlm = 4096, ! default buffered I/O buffer space
425 0519 1 defdiolm = 6, ! default direct I/O limit
426 0520 1 deffillm = 20, ! default open file limit
427 0521 1 defflags = 0, ! default flag bits
428 0522 1 deftcnt = 10, ! default time queue entries
429 0523 1 defprcnt = 2, ! default subprocess count
430 0524 1 defpri = 4, ! default process priority
431 0525 1 defquepri = 4, ! default queue priority
432 0526 1 defwsquota = 200, ! default working set limit
433 0527 1 defdfwscnt = 150, ! "default" working set default size
434 0528 1 defwsextent = 500, ! default working set extent
435 0529 1 defcputim = 0, ! default CPU time quota
436 0530 1 defastlm = 10, ! default AST queue limit
437 0531 1 defpgflquota = 10000, ! default paging file limit in pages
438 0532 1 defenqlm = 10, ! default enqueue limit
439 0533 1 defpbytlm = 0, ! default paged buffer I/O limit
440 0534 1 defshrfillm = 0, ! default shared file limit
441 0535 1 defmaxjobs = 0, ! default maximum concurrent jobs
442 0536 1 defmaxacctjobs = 0, ! default maximum concurrent group jobs
443 0537 1 defmaxdetach = 0, ! default maximum detached processes
444 0538 1 defjtquota = 1024, ! default job-wide logical table quota
445 0539 2 defprimedays = ( ! Sat, Sun are default non-prime days
446 0540 2 (1 ^ $bitposition (uaf$v_saturday)) or
447 0541 3 (1 ^ $bitposition (uaf$v_sunday))
448 0542 1 ),
449 0543 1 defhours = 0, ! default all hours to allow access
450 0544 1 defpriv = uplit ( ! default privilege vector
451 0545 2 (
452 0546 2 (1 ^ $bitposition (prv$v_netmbx)) or
453 0547 3 (1 ^ $bitposition (prv$v_tmmbx))
454 0548 1 ), 0),
455 0549 1 defpwdlength = 6, ! default min password length
456 0550 1 defpwdlife = uplit (0,0), ! default password lifetime
457 0551 1
458 0552 1
459 0553 1 The following are the default values for the SYSTEM user. When
460 0554 1 a new file is created, a system manager record is created.
461 0555 1
462 0556 1 sysuser = cstring ('SYSTEM'),
463 0557 1 syspass = cstring ('MANAGER'),
464 0558 1 sysclitabl = cstring ('DCLTABLES'),
465 0559 1 sysact = cstring ('SYSTEM'),
466 0560 1 syscli = cstring ('DCL'),
```



```
: 467      0561 1      sysowner      = cstring ('SYSTEM MANAGER'),
: 468      0562 1      syslgicmd     = cstring (''),
: 469      0563 1      sysgrp        = %'1',
: 470      0564 1      sysmem        = %'4',
: 471      0565 1      sysdir        = cstring ('[SYSMGR]'),
: 472      0566 1      sysdev        = cstring (''),
: 473      0567 1      sysbiolm      = 12,
: 474      0568 1      sysbytlm      = 20480,
: 475      0569 1      sysdiolm      = 12,
: 476      0570 1      sysfillm      = 20,
: 477      0571 1      sysflags      = 0,
: 478      0572 1      systqcnt      = 20,
: 479      0573 1      sysprcct      = 10,
: 480      0574 1      syspri        = 4,
: 481      0575 1      sysquepri     = 4,
: 482      0576 1      syswsquota    = 350,
: 483      0577 1      syswsextent   = 1024,
: 484      0578 1      sysdfwscnt    = 150,
: 485      0579 1      syscputim     = 0,
: 486      0580 1      sysastlm      = 20,
: 487      0581 1      syspgflquota  = 10000,
: 488      0582 1      sysenqlm      = 20,
: 489      0583 1      syspbytlm     = 0,
: 490      0584 1      sysshrfillm   = 0,
: 491      0585 1      sysmaxjobs    = 0,
: 492      0586 1      sysmaxdetach  = 0,
: 493      0587 1      sysjtquota    = 1024,
: 494      0588 1      sysmaxacctjobs = 0,
: 495      0589 2      sysprimedays   = (
: 496      0590 2          ! Sat, Sun are default non-prime days
: 497      0591 3          (1 ^ $bitposition (uaf$v_saturday)) or
: 498      0592 1          (1 ^ $bitposition (uaf$v_sunday))
: 499      0593 1          ),
: 500      0594 1      syshours      = 0,
: 501      0595 1      syspriv       = uplit (rep 2 of (%'FFFFFFFF')),
: 502      0596 1      syspwdlength  = 8,          ! default min password length
: 503      0597 1      syspwdlife    = uplit (0,0); ! default password lifetime
: 504      0598 1
: 505      0599 1      ! GLOBAL STORAGE - must be before OWN for initialization purposes
: 506      0600 1
: 507      0601 1      global
: 508      0602 1          disbuf      : vector [disbuflen, byte], ! display buffer
: 509      0603 1          disdsc     : block [8, byte] initial (disbuflen, disbuf) ;
: 510      0604 1
: 511      0605 1      !
: 512      0606 1      ! OWN STORAGE:
: 513      0607 1
: 514      0608 1      ! own
: 515      0609 1          username_buf : block [uaf$s_username, byte],
: 516      0610 1          pcb_sts      : bitvector [32],
: 517      0611 1          pid,
: 518      0612 1          username_dsc : vector [2] initial (0, username_buf),
: 519      0613 1          recname_dsc  : vector [2],
: 520      0614 1          file_dsc    : vector [2] initial (6),
: 521      0615 1          mod_default, ! DEFAULT record being modified by MODIFY command
: 522      0616 1          modify_flag : long,      ! SYSUAF modified
: 523      0617 1          netuaf_modified, ! NETUAF modified
```



```

: 524      0618 1      rename_ph2      : byte initial (false),
: 525      0619 1      olduserlen      : long,
: 526      0620 1      oldusername      : vector [uaf$s_username,byte],
: 527      0621 1      newuserlen      : long,
: 528      0622 1      newusername      : vector [uaf$s_username,byte],
: 529      0623 1      cmdbuf           : vector [cmdbuf$len, byte], ! command buffer
: 530      0624 1      default_size     : word,
: 531      0625 1      default_record    : block [uaf$c_length, byte], ! default record held here
: 532      0626 1      pwddsc           : block [8, byte],      ! password descriptor
: 533      0627 1      insize            : long,              ! number of input chars
: 534      0628 1      brief_flag        : long,              ! display option
: 535      0629 1      full_flag         : long,              ! display option
: 536      0630 1      header_flag       : long,              ! output header or not?
: 537      0631 1
: 538      0632 1
: 539      P 0633 1      infab           : $fab (              ! FAB for terminal I/O
: 540      P 0634 1      fac = (get, put),
: 541      P 0635 1      rat = cr,
: 542      P 0636 1      fnm = 'SYS$INPUT'
: 543      0637 1      ),
: 544      0638 1
: 545      P 0639 1      inrab           : $rab (              ! RAB for terminal I/O
: 546      P 0640 1      rac = seq,
: 547      P 0641 1      rop = pmt,
: 548      P 0642 1      fab = infab
: 549      0643 1      ),
: 550      0644 1
: 551      P 0645 1      outfab          : $fab (
: 552      P 0646 1      fac = (put),
: 553      P 0647 1      rat = cr,
: 554      P 0648 1      fnm = 'SYS$OUTPUT'
: 555      0649 1      ),
: 556      0650 1
: 557      0651 1      lstnam           : $nam (,              ! needed for the DLT option
: 558      0652 1
: 559      P 0653 1      lstpro          : $xabpro (
: 560      P 0654 1      pro = (rwd,rwd,rw)
: 561      0655 1      ),
: 562      0656 1
: 563      P 0657 1      lstfab          : $fab (              ! FAB for UAF listing file
: 564      P 0658 1      fac = put,
: 565      P 0659 1      rat = cr,
: 566      P 0660 1      fnm = 'SYSUAF.LIS',
: 567      P 0661 1      shr = nil,
: 568      P 0662 1      org = seq,
: 569      P 0663 1      rfm = var,
: 570      P 0664 1      mrs = disbuflen,
: 571      P 0665 1      nam = lstnam,
: 572      P 0666 1      xab = lstpro
: 573      0667 1      ),
: 574      0668 1
: 575      P 0669 1      lstrab          : $rab (              ! RAB for UAF listing file
: 576      P 0670 1      rac = seq,
: 577      P 0671 1      rbf = disbuf,
: 578      P 0672 1      fab = lstfab
: 579      0673 1      ),
: 580      0674 1
```

```

581      0675 1      nlstnam : $nam (),
582      0676 1
583      P 0677 1      nlstpro : $xabpro (
584      P 0678 1          pro = (rwd,rwd,rw)
585      0679 1          ),
586      0680 1
587      P 0681 1      nlstfab : $fab (          ! FAB for NETUAF listing file
588      P 0682 1          fac = put,
589      P 0683 1          rat = cr,
590      P 0684 1          fnm = 'NETUAF.LIS',
591      P 0685 1          shr = nil,
592      P 0686 1          org = seq,
593      P 0687 1          rfm = var,
594      P 0688 1          mrs = disbuflen,
595      P 0689 1          nam = nlstnam,
596      P 0690 1          xab = nlstpro
597      0691 1          ),
598      0692 1
599      P 0693 1      nlstrab : $rab (          ! RAB for NETUAF listing file
600      P 0694 1          rac = seq,
601      P 0695 1          rbf = disbuf,
602      P 0696 1          fab = nlstfab
603      0697 1          ),
604      0698 1
605      P 0699 1      uafkey2 : $xabkey (          ! XAB for User number key
606      P 0700 1          kref = 2,          ! alternate key
607      P 0701 1          pos0 = $byteoffset (uaf$w_mem),
608      P 0702 1          siz0 = 2,
609      P 0703 1          dtp = bn2,
610      P 0704 1          flg = (chg,dup)
611      0705 1          ),
612      0706 1
613      P 0707 1      uafkey1 : $xabkey (          ! XAB for Group number key
614      P 0708 1          kref = 1,          ! alternate key
615      P 0709 1          pos0 = $byteoffset (uaf$l_uic),
616      P 0710 1          siz0 = 4,
617      P 0711 1          dtp = bn4,
618      P 0712 1          flg = (chg,dup),
619      P 0713 1          nxt = uafkey2
620      0714 1          ),
621      0715 1
622      P 0716 1      uafkey0 : $xabkey (          ! XAB for USERNAME key
623      P 0717 1          kref = 0,          ! primary key
624      P 0718 1          pos0 = $byteoffset (uaf$t_username),
625      P 0719 1          siz0 = uaf$s_username,
626      P 0720 1          nxt = uafkey1
627      0721 1          ),
628      0722 1
629      P 0723 1      uafpro : $xabpro (          ! XAB for file protection
630      P 0724 1          pro = (rwed, rwed), ! deny world access
631      P 0725 1          nxt = uafkey0
632      0726 1          ),
633      0727 1
634      P 0728 1      uaffab : $fab (          ! FAB for work file
635      P 0729 1          fop = cif,
636      P 0730 1          fac = (get, put, del, upd),
637      0731 1          fnm = 'SYSUAF',
```



```

638 P 0732 1 dnm = '.DAT',
639 P 0733 1 shr = (get, put, del, upd),
640 P 0734 1 org = idx,
641 P 0735 1 rfm = var,
642 P 0736 1 mrs = uaf$c_length,
643 P 0737 1 alq = 10,
644 P 0738 1 deq = 10,
645 P 0739 1 xab = uafpro
646 0740 1 ),
647 0741 1
648 0742 1 ! FAB for NETUAF Proxy Login File
649 0743 1
650 0744 1
651 P 0745 1 nafkey1 : $xabkey (
652 P 0746 1 kref = 1,
653 P 0747 1 pos0 = $byteoffset (naf$t_localuser),
654 P 0748 1 siz0 = naf$s_localuser,
655 P 0749 1 flg = (chg,dup)
656 0750 1 ),
657 0751 1
658 P 0752 1 nafkey0 : $xabkey (
659 P 0753 1 kref = 0,
660 P 0754 1 pos0 = $byteoffset (naf$t_remname),
661 P 0755 1 siz0 = naf$s_remname,
662 P 0756 1 nxt = nafkey1
663 0757 1 ),
664 0758 1
665 P 0759 1 nafpro : $xabpro (
666 P 0760 1 pro = (rwd, rwd),
667 P 0761 1 nxt = nafkey0
668 0762 1 ),
669 0763 1
670 P 0764 1 naffab : $fab ( ! FAB for NETUAF
671 P 0765 1 fop = cif,
672 P 0766 1 fac = (get, put, del, upd),
673 P 0767 1 fnm = 'NETUAF',
674 P 0768 1 dnm = '.DAT',
675 P 0769 1 shr = (get, put, del, upd),
676 P 0770 1 org = idx,
677 P 0771 1 rfm = fix,
678 P 0772 1 mrs = naf$c_length,
679 P 0773 1 alq = 10,
680 P 0774 1 deq = 10,
681 P 0775 1 xab = nafpro
682 0776 1 );
683 0777 1
684 0778 1
685 0779 1 ! GLOBAL STORAGE:
686 0780 1
687 0781 1 global
688 0782 1 faodsc : block [8, byte], ! gen'l purpose fao string desc
689 0783 1 rabptr : ref block [rab$c_bln, byte], ! RAB for output
690 0784 1 uaf$gq_sysuaff : block [nsa_s_sysuaff, byte], ! SYSUAF auditing flags
691 0785 1 uaf$gl_ctlmsk : block [2], ! Control mask for AUTHORIZE
692 0786 1 by account : long initial (false), ! processing by account
693 0787 1 match_token : vector [naf$s_remname+2, byte], ! Saved match token
694 0788 1 match_tokenlen : long,
```

```

695      0789 1      wild_netuser,      ! wildcard access to proxy entries
696      0790 1      call_count      : long initial (0),      ! counter for reprocessing cmd line
697      0791 1      token$sc      : block [8, byte], preset ( [dsc$b_class]=dsc$b_class_d),
698      0792 1      cmdlindsc      : block [8, byte],
699      0793 1      netuaf_exists,      ! A self-explanatory flag...
700      0794 1      rdb_exists      : long,
701      0795 1      rmserr      : long,      ! save rms error codes here
702      0796 1      rightslist_modified : byte,      ! RIGHTSLIST modified flag
703      0797 1
704      0798 1      Record buffer for file I/O. Records are generally read into RECBUF,
705      0799 1      modified, and output.
706      0800 1
707      0801 1      recbuf      : block [uaf$sc_length, byte],
708      0802 1      netbuf      : block [naf$sc_length, byte],
709      0803 1
710      0804 1      UAFRAB is global to allow UPDATE_RECORD to modify RAB$W_RSZ.
711      0805 1
712      P 0806 1      uafrab : $rab (! RAB for work file
713      P 0807 1      krf = 0,
714      P 0808 1      kbf = recbuf [uaf$st_username],
715      P 0809 1      ksz = uaf$ss_username,
716      P 0810 1      usz = uaf$sc_length,
717      P 0811 1      fab = uaffab
718      0812 1      ),
719      0813 1
720      0814 1      RAB for NETUAF Proxy Login File
721      0815 1
722      P 0816 1      nafrab : $rab (
723      P 0817 1      krf = 0,
724      P 0818 1      kbf = netbuf [naf$st_remname],
725      P 0819 1      ksz = naf$ss_remname,
726      P 0820 1      usz = naf$sc_length,
727      P 0821 1      rsz = naf$sc_length,
728      P 0822 1      rac = key,
729      P 0823 1      fab = naf$fab
730      0824 1      ),
731      0825 1
732      0826 1
733      0827 1      time_buf      : block [8,byte],      ! current system time
734      0828 1      pwd_flag      : long,      ! Password default flag
735      0829 1
736      P 0830 1      outrab : $rab (
737      P 0831 1      rac = seq,
738      P 0832 1      rbf = disbuf,
739      P 0833 1      fab = outfab
740      0834 1      ),
741      0835 1
742      0836 1
743      0837 1      Flag signaling to WILD_USER that a match was found. This flag
744      0838 1      is set by the action routine called by WILD_USER.
745      0839 1
746      0840 1      found_match,      ! found at least one wildcard match
747      0841 1
748      0842 1
749      0843 1      Wildcard parsing flags set by PARSE_WILD for use in WILD_USER.
750      0844 1
751      0845 1      uic_flag      : long,
```



```
: 752      0846 1      grp_wild      : long,
: 753      0847 1      mem_wild      : long,
: 754      0848 1      str_wild      : long;
: 755      0849 1
: 756      0850 1 global bind
: 757      0851 1      tokenlen      = tokendsc [dsc$w_length] : word,
: 758      0852 1      tokenptr      = tokendsc [dsc$a_pointer],
: 759      0853 1      rec_user_dsc   = uplit (uaf$s_username, recbuf [uaf$t_username]),
: 760      0854 1      rec_encrypt_dsc = uplit (uaf$s_pwd, recbuf [uaf$q_pwd]),
: 761      0855 1      symbol_str     = cstring ('ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789$_');
: 762      0856 1      ! valid username characters
: 763      0857 1
: 764      0858 1      !
: 765      0859 1      Prompt strings
: 766      0860 1      !
: 767      0861 1
: 768      0862 1 bind
: 769      0863 1
: 770      0864 1      accprmt      = cstring (%char (lf), 'UAF> '),
: 771      0865 1      accprmt2     = cstring (%char (lf), '- '),
: 772      0866 1      newmsg20     = cstring ('Do you want to create a new file? ');
: 773      0867 1
: 774      0868 1      !
: 775      0869 1      External messages
: 776      0870 1      !
: 777      0871 1
: 778      0872 1 external routine
: 779      0873 1
: 780      0874 1      LIB$SIGNAL;
: 781      0875 1
: 782      0876 1 external literal
: 783      0877 1
: 784      0878 1      UAF$_ADDERR,      UAF$_ADDMSG,      UAF$_BADNODFORM,
: 785      0879 1      UAF$_BADSPC,      UAF$_BADUSR,      UAF$_CLIWARNMSG,
: 786      0880 1      UAF$_CMDTOOLONG,    UAF$_CONERR,      UAF$_COPMSG,
: 787      0881 1      UAF$_CREERR,      UAF$_DEFERR,      UAF$_DEFPWD,
: 788      0882 1      UAF$_DONEMSG,      UAF$_GETERR,      UAF$_HELPERR,
: 789      0883 1      UAF$_INVCMD,      UAF$_INVRSP,      UAF$_INVUSERNAME,
: 790      0884 1      UAF$_KEYNOTFND,    UAF$_KEYNOTUNQ,   UAF$_LSTERR,
: 791      0885 1      UAF$_LSTMSG1,      UAF$_LSTMSG2,     UAF$_MDFYERR,
: 792      0886 1      UAF$_MDFYMSG,      UAF$_NAFADDERR,   UAF$_NAFADDMSG,
: 793      0887 1      UAF$_NAFAEX,      UAF$_NAFCONERR,   UAF$_NAFCREERR,
: 794      0888 1      UAF$_NAFDNE,      UAF$_NAFDONEMSG,  UAF$_NAFNOMODS,
: 795      0889 1      UAF$_NAFUAEERR,    UAF$_NAMETOOBIG,  UAF$_NETLSTMSG,
: 796      0890 1      UAF$_NAOFL,      UAF$_NAONAF,      UAF$_NOARG,
: 797      0891 1      UAF$_NODEFPWD,    UAF$_NODTOOBIG,   UAF$_NOMODS,
: 798      0892 1      UAF$_NOTUNQ,      UAF$_NOUSERNAME,  UAF$_PREMSG,
: 799      0893 1      UAF$_PUTERR,      UAF$_RDBDONEMSG,  UAF$_RDBMDFYERR,
: 800      0894 1      UAF$_RDBMDFYERRU,  UAF$_RDBMDFMSG,   UAF$_RDBNOMODS,
: 801      0895 1      UAF$_REMDEF,      UAF$_REMERR,      UAF$_REMMSG,
: 802      0896 1      UAF$_REMSYS,      UAF$_RENDEF,      UAF$_RENMSG,
: 803      0897 1      UAF$_RENSYS,      UAF$_RONLY,       UAF$_SHOWERR,
: 804      0898 1      UAF$_SYSMSG1,      UAF$_SYSMSG2,     UAF$_UAEERR,
: 805      0899 1      UAF$_UICERR,      UAF$_ZISQUAL,     UAF$_ZZPRACREN;
: 806      0900 1
```

start - controlling code

```

: 808      0901 1 %sbttl 'start - controlling code'
: 809      0902 1 routine start =
: 810      0903 2 begin
: 811      0904 2
: 812      0905 2 ++
: 813      0906 2
: 814      0907 2 FUNCTIONAL DESCRIPTION:
: 815      0908 2
: 816      0909 2 Main procedure of AUTHORIZE. Call SETUP to initialize
: 817      0910 2 all needed files. Prompt the user for the functions which
: 818      0911 2 he/she wants, and call the proper function service routine.
: 819      0912 2
: 820      0913 2 INPUTS:
: 821      0914 2
: 822      0915 2 none
: 823      0916 2
: 824      0917 2 IMPLICIT INPUTS:
: 825      0918 2
: 826      0919 2 none
: 827      0920 2
: 828      0921 2 OUTPUTS:
: 829      0922 2
: 830      0923 2 None
: 831      0924 2
: 832      0925 2 IMPLICIT OUTPUTS:
: 833      0926 2
: 834      0927 2 none
: 835      0928 2
: 836      0929 2 ROUTINE VALUE:
: 837      0930 2
: 838      0931 2 none
: 839      0932 2
: 840      0933 2 SIDE EFFECTS:
: 841      0934 2
: 842      0935 2 none
: 843      0936 2 --
: 844      0937 2
: 845      0938 2 own
: 846      0939 2 status;
: 847      0940 2
: 848      0941 2 map
: 849      0942 2 cmdlindsc : vector;
: 850      0943 2
: 851      0944 2 bind
: 852      0945 2 foreign_cmdlindsc = uplit (cmdbuflen, cmdbuf);
: 853      0946 2
: 854      0947 2 rightslist_modified = false;
: 855      0948 2 netuaf_modified = false;
: 856      0949 2 modify_flag = false;
: 857      0950 2
: 858      0951 2
: 859      0952 2 Set up terminal I/O
: 860      0953 2
: 861      0954 2
: 862      0955 2 if rmsbad (status = $open (fab = infab))
: 863      0956 2 then
: 864      0957 2 signal_stop (.status);
```

! note no modifications

start - controlling code

```

865 0958 2
866 0959 if rmsbad (status = $connect (rab = inrab))
867 0960 then
868 0961     signal_stop (.status);
869 0962
870 0963 $create (fab = outfab);
871 0964 $connect (rab = outrab);
872 0965
873 0966 setup ();
874 0967
875 0968 |
876 0969 | Files have been initialized. Prompt user for command line
877 0970 | and perform requested function.
878 0971 |
879 0972
880 0973 if lib$get_foreign (foreign_cmdlindsc, 0, cmdlindsc) and .cmdlindsc [0] neq 0
881 0974 then
882 0975 |
883 0976 |   If defined foreign, and there are commands on the line...
884 0977 |
885 0978 |   begin
886 0979 |       cmdlindsc [1] = cmdbuf;
887 0980 |
888 0981 |       if (status = cli$dcl_parse (cmdlindsc, authorize_commands))
889 0982 |       then
890 0983 |       begin
891 0984 |       cli$dispatch ();
892 0985 |       return true;
893 0986 |       end
894 0987 |   else
895 0988 |   |
896 0989 |   |   See if no CLINT exists (Kludge City, USA 37916)
897 0990 |   |
898 0991 |   |   if .status eql cli$_noclint
899 0992 |   |   then
900 0993 |   |       signal_stop (cli$_noclint)
901 0994 |   |   else
902 0995 |   |       acc$exit ()
903 0996 |   end;
904 0997
905 0998 while true
906 0999 do
907 1000     begin
908 1001 |
909 1002 |   Input the command line, taking care of continuations. Pull off
910 1003 |   the first token, assuming it is the command name, and look it up
911 1004 |   in the table of commands.
912 1005 |
913 1006 |
914 1007
915 1008 if get_cmd_line ()
916 1009 then
917 1010     if (status = cli$dcl_parse (cmdlindsc, authorize_commands))
918 1011     then
919 1012     begin
920 1013     ch$fill (0, uaf$s_flags, uaf$gl_ctlmsk);
921 1014     cli$dispatch ();
```

UAFMAIN
V04-000

start - controlling code

L 11
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 18
(3)

```

: 922      1015 4      end
: 923      1016      else
: 924      1017          if .status eql cli$_noclint
: 925      1018          then
: 926      1019              signal_stop (cli$_noclint)
: 927      1020      end;
: 928      1021
: 929      1022      return true;
: 930      1023
: 931      1024 1 end;
```

												.TITLE	UAFMAIN																			
												.IDENT	\V04-000\																			
												.PSECT	\$SPLIT\$,NOWRT,NOEXE,2																			
												31	6E	65	6B	6F	74	000000	P.AAB:	.ASCII	\token1\	:										
																		000006		.BLKB	2	:										
																		00000006	P.AAA:	.LONG	6	:										
																		00000000		.ADDRESS	P.AAB	:										
												32	6E	65	6B	6F	74	000010	P.AAD:	.ASCII	\token2\	:										
																		000016		.BLKB	2	:										
																		00000006	P.AAC:	.LONG	6	:										
																		00000000		.ADDRESS	P.AAD	:										
													66	65	69	72	62	000020	P.AAF:	.ASCII	\brief\	:										
																		000025		.BLKB	3	:										
																		00000005	P.AAE:	.LONG	5	:										
																		00000000		.ADDRESS	P.AAF	:										
													6C	6C	75	66		000030	P.AAH:	.ASCII	\full\	:										
																		00000004	P.AAG:	.LONG	4	:										
																		00000000		.ADDRESS	P.AAH	:										
													72	65	69	66	69	74	6E	65	64	69	5F	64	64	61		00003C	P.AAJ:	.ASCII	\add_identifier\	:
																		00004A		.BLKB	2	:										
																		0000000E	P.AAI:	.LONG	14	:										
																		00000000		.ADDRESS	P.AAJ	:										
69	66	69	74	6E	65	64	69	5F	65	76	6F	6D	65	72				000054	P.AAL:	.ASCII	\remove_identifier\	:										
													72	65				000063				:										
																		000065		.BLKB	3	:										
																		00000011	P.AAK:	.LONG	17	:										
																		00000000		.ADDRESS	P.AAL	:										
69	66	69	74	6E	65	64	69	5F	79	66	69	64	6F	6D				000070	P.AAN:	.ASCII	\modify_identifier\	:										
													72	65				00007F				:										
																		000081		.BLKB	3	:										
																		00000011	P.AAM:	.LONG	17	:										
																		00000000		.ADDRESS	P.AAN	:										
6F	73	65	72	2E	73	65	74	75	62	69	72	74	74	61				00008C	P.AAO:	.ASCII	\attributes.resource\	:										
													63	72	75			00009B				:										
													46	41	55	53	59	53	00009F	P.AAP:	.ASCII	\SYSUAF\	:									
													46	41	55	54	45	4E	0000A5	P.AAQ:	.ASCII	\NETUAF\	:									
													64	65	69	66	69	64	6F	6D	0000AB	P.AAS:	.ASCII	\modified\	:							
																		0000B3		.BLKB	1	:										
																		00000008	P.AAR:	.LONG	8	:										
																		00000000		.ADDRESS	P.AAS	:										
													64	65	64	64	61	0000BC	P.AAU:	.ASCII	\added\	:										
																		0000C1		.BLKB	3	:										
																		00000005	P.AAT:	.LONG	5	:										


```

      64 65 76 6F 6D 65 72 00000000' 000C8 .ADDRESS P.AAU
      000CC P.AAW: .ASCII \removed\
      000D3 .BLKB 1
      00000007' 000D4 P.AAV: .LONG 7
      00000000' 000D8 .ADDRESS P.AAW
53 41 21 20 53 41 21 20 4C 58 21 3D 44 49 50 000DC P.AAY: .ASCII \PID=!XL !AS !AS !AS record !AS on !%D\
53 41 21 20 64 72 6F 63 65 72 20 53 41 21 20 000EB
      44 25 21 20 6E 6F 20 000FA
      00101 .BLKB 3
      00000025' 00104 P.AAX: .LONG 37
      00000000' 00108 .ADDRESS P.AAY
      3A 3A 0010C P.ABA: .ASCII \::\
      0010E .BLKB 2
      00000002' 00110 P.AAZ: .LONG 2
      00000000' 00114 .ADDRESS P.ABA
      FFFFFFFF FFB3B4C0 00118 P.ABB: .LONG -5000000, -1
      07 00120 P.ABC: .BYTE 7
      54 4C 55 41 46 45 44 00121 .ASCII \DEFAULT\
      04 00128 P.ABD: .BYTE 4
      52 45 53 55 00129 .ASCII \USER\
      09 0012D P.ABE: .BYTE 9
53 45 4C 42 41 54 4C 43 44 0012E .ASCII \DCLTABLES\
      00 00137 P.ABF: .BYTE 0
      00138 .BLKB 0
      03 00138 P.ABG: .BYTE 3
      4C 43 44 00139 .ASCII \DCL\
      00 0013C P.ABH: .BYTE 0
      00 0013D .BLKB 0
      00 0013D P.ABI: .BYTE 0
      00 0013E .BLKB 0
      5D 52 45 53 55 06 0013E P.ABJ: .BYTE 6
      5B 0013F .ASCII \[USER]\
      00 00145 P.ABK: .BYTE 0
      00146 .BLKB 0
      00146 .BLKB 2
      00000000 00108000 00148 P.ABL: .LONG 1081344, 0
      00000000 00000000 00150 P.ABM: .LONG 0, 0
      06 00158 P.ABN: .BYTE 6
      4D 45 54 53 59 53 00159 .ASCII \SYSTEM\
      07 0015F P.ABO: .BYTE 7
      52 45 47 41 4E 41 4D 00160 .ASCII \MANAGER\
      09 00167 P.ABP: .BYTE 9
53 45 4C 42 41 54 4C 43 44 00168 .ASCII \DCLTABLES\
      06 00171 P.ABQ: .BYTE 6
      4D 45 54 53 59 53 00172 .ASCII \SYSTEM\
      03 00178 P.ABR: .BYTE 3
      4C 43 44 00179 .ASCII \DCL\
      0E 0017C P.ABS: .BYTE 14
52 45 47 41 4E 41 4D 20 4D 45 54 53 59 53 0017D .ASCII \SYSTEM MANAGER\
      00 0018B P.ABT: .BYTE 0
      0018C .BLKB 0
      08 0018C P.ABU: .BYTE 8
      5D 52 47 4D 53 59 53 5B 0018D .ASCII \[SYSMGR]\
      00 00195 P.ABV: .BYTE 0
      00196 .BLKB 0
      00196 .BLKB 2
      FFFFFFFF# 00198 P.ABW: .LONG -1[2]
```

```

      00000000 00000000 001A0 P.ABX: .LONG 0, 0
      54 54 55 50 4E 49 24 53 59 53 001A8 P.ABY: .ASCII \SYSS$INPUT\
      53 55 50 54 55 4F 24 53 59 53 001B1 P.ABZ: .ASCII \SYSS$OUTPUT\
      53 49 4C 2E 46 41 55 53 59 53 001BB P.ACA: .ASCII \SYSUAF.LIS\
      53 49 4C 2E 46 41 55 54 45 4E 001C5 P.ACB: .ASCII \NETUAF.LIS\
      46 41 55 53 59 53 001CF P.ACC: .ASCII \SYSUAF\
      46 41 54 41 44 2E 001D5 P.ACD: .ASCII \.DAT\
      46 41 55 54 45 4E 001D9 P.ACE: .ASCII \NETUAF\
      54 41 44 2E 001DF P.ACF: .ASCII \.DAT\
      001E3 .BLKB 1
      00000020 001E4 P.ACG: .LONG 32
      00000000 001E8 .ADDRESS RECBUF+4
      00000008 001EC P.ACH: .LONG 8
      00000000 001F0 .ADDRESS RECBUF+340
      4F 4E 4D 4C 4B 4A 49 48 47 46 45 44 43 42 41 001F4 P.ACI: .BYTE 38
      33 32 31 30 5A 59 58 57 56 55 54 53 52 51 50 001F5 .ASCII \ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789$_\
      5F 24 39 38 37 36 35 34 00204
      20 3E 46 41 55 0A 00213
      20 5F 0A 0021B P.ACJ: .BYTE 6
      22 0021C .ASCII <10>\UAF> \
      00222 P.ACK: .BYTE 3
      00223 .ASCII <10>\_ \
      20 6F 74 20 74 6E 61 77 20 75 6F 79 20 6F 44 00226 P.ACL: .BYTE 34
      69 66 20 77 65 6E 20 61 20 65 74 61 65 72 63 00227 .ASCII \Do you want to create a new file? \
      20 3F 65 6C 00236
      00245
      00249 .BLKB 3
      00000400 0024C P.ACM: .LONG 1024
      00000000 00250 .ADDRESS CMDBUF
      .PSECT $OWNS,NOEXE,2
      0013 0000 SD_ATTRIBRESOURCE:
      01 0E 00002 .WORD 19
      00000000 00004 .BYTE 14, 1
      00008 USERNAME_BUF:
      00028 PCB_STS: .BLKB 32
      0002C PID: .BLKB 4
      00030 USERNAME_DSC:
      00034 .LONG 0
      00038 RECNAME_DSC:
      00040 FILE_DSC:
      00044 .LONG 6
      00048 MOD_DEFAULT: .BLKB 4
      0004C MODIFY_FLAG: .BLKB 4
      00050 NETUAF_MODIFIED: .BLKB 4
      00 00054 RENAME_PH2:
      00055 .BYTE 0
      .BLKB 3
```


	00058	OLDUSERLEN:		
		.BLKB	4	
	0005C	OLDUSERNAME:		
		.BLKB	32	
	0007C	NEWUSERLEN:		
		.BLKB	4	
	00080	NEWUSERNAME:		
		.BLKB	32	
	000A0	CMDBUF:	.BLKB	1024
	004A0	DEFAULT_SIZE:		
		.BLKB	2	
	004A2		.BLKB	2
	004A4	DEFAULT_RECORD:		
		.BLKB	1412	
	00A28	PWDDSC:	.BLKB	8
	00A30	INSIZE:	.BLKB	4
	00A34	BRIEF_FLAG:		
		.BLKB	4	
	00A38	FULL_FLAG:		
		.BLKB	4	
	00A3C	HEADER_FLAG:		
		.BLKB	4	
03	00A40	INFAB:	.BYTE	3
50	00A41		.BYTE	80
0000	00A42		.WORD	0
00000000	00A44		.LONG	0
00000000	00A48		.LONG	0
00000000	00A4C		.LONG	0
00000000	00A50		.LONG	0
0000	00A54		.WORD	0
03	00A56		.BYTE	3
00	00A57		.BYTE	0
00000000	00A58		.LONG	0
00	00A5C		.BYTE	0
00	00A5D		.BYTE	0
02	00A5E		.BYTE	2
02	00A5F		.BYTE	2
00000000	00A60		.LONG	0
00000000	00A64		.LONG	0
00000000	00A68		.LONG	0
00000000	00A6C		.ADDRESS	P.ABY
00000000	00A70		.LONG	0
09	00A74		.BYTE	9
00	00A75		.BYTE	0
0000	00A76		.WORD	0
00000000	00A78		.LONG	0
0000	00A7C		.WORD	0
00	00A7E		.BYTE	0
00	00A7F		.BYTE	0
00000000	00A80		.LONG	0
00000000	00A84		.LONG	0
0000	00A88		.WORD	0
00	00A8A		.BYTE	0
00	00A8B		.BYTE	0
00000000	00A8C		.LONG	0
01	00A90	INRAB:	.BYTE	1
44	00A91		.BYTE	68

0000	00A92		.WORD	0	
40000000	00A94		.LONG	1073741824	
00000000	00A98		.LONG	0	
00000000	00A9C		.LONG	0	
0000#	00AA0		.WORD	0[3]	
0000	00AA6		.WORD	0	
00000000	00AA8		.LONG	0	
0000	00AAC		.WORD	0	
00	00AAE		.BYTE	0	
00	00AAF		.BYTE	0	
0000	00AB0		.WORD	0	
0000	00AB2		.WORD	0	
00000000	00AB4		.LONG	0	
00000000	00AB8		.LONG	0	
00000000	00ABC		.LONG	0	
00000000	00AC0		.LONG	0	
00	00AC4		.BYTE	0	
00	00AC5		.BYTE	0	
00	00AC6		.BYTE	0	
00	00AC7		.BYTE	0	
00000000	00AC8		.LONG	0	
00000000	00ACC		.ADDRESS	INFAB	
00000000	00AD0		.LONG	0	
03	00AD4	OUTFAB:	.BYTE	3	
50	00AD5		.BYTE	80	
0000	00AD6		.WORD	0	
00000000	00AD8		.LONG	0	
00000000	00ADC		.LONG	0	
00000000	00AE0		.LONG	0	
00000000	00AE4		.LONG	0	
0000	00AE8		.WORD	0	
01	00AEA		.BYTE	1	
00	00AEB		.BYTE	0	
00000000	00AEC		.LONG	0	
00	00AF0		.BYTE	0	
00	00AF1		.BYTE	0	
02	00AF2		.BYTE	2	
02	00AF3		.BYTE	2	
00000000	00AF4		.LONG	0	
00000000	00AF8		.LONG	0	
00000000	00AFC		.LONG	0	
00000000	00B00		.ADDRESS	P.ABZ	
00000000	00B04		.LONG	0	
0A	00B08		.BYTE	10	
00	00B09		.BYTE	0	
0000	00B0A		.WORD	0	
00000000	00B0C		.LONG	0	
0000	00B10		.WORD	0	
00	00B12		.BYTE	0	
00	00B13		.BYTE	0	
00000000	00B14		.LONG	0	
00000000	00B18		.LONG	0	
0000	00B1C		.WORD	0	
00	00B1E		.BYTE	0	
00	00B1F		.BYTE	0	
00000000	00B20		.LONG	0	
02	00B24	LSTNAM:	.BYTE	2	

start - controlling code

D 12
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742 Page 23
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (3)

UA
VO

00000000	00BF4	.LONG	0	:
00	00BF8	.BYTE	0	:
00	00BF9	.BYTE	0	:
02	00BFA	.BYTE	2	:
02	00BFB	.BYTE	2	:
00000000	00BFC	.LONG	0	:
00000000	00C00	.ADDRESS	LSTPRO	:
00000000	00C04	.ADDRESS	LSTNAM	:
00000000	00C08	.ADDRESS	P.ACA	:
00000000	00C0C	.LONG	0	:
0A	00C10	.BYTE	10	:
00	00C11	.BYTE	0	:
0084	00C12	.WORD	132	:
00000000	00C14	.LONG	0	:
0000	00C18	.WORD	0	:
00	00C1A	.BYTE	0	:
00	00C1B	.BYTE	0	:
00000000	00C1C	.LONG	0	:
00000000	00C20	.LONG	0	:
0000	00C24	.WORD	0	:
00	00C26	.BYTE	0	:
00	00C27	.BYTE	0	:
00000000	00C28	.LONG	0	:
01	00C2C	.BYTE	1	:
44	00C2D	.BYTE	68	:
0000	00C2E	.WORD	0	:
00000000	00C30	.LONG	0	:
00000000	00C34	.LONG	0	:
00000000	00C38	.LONG	0	:
0000	00C3C	.WORD	0[3]	:
0000	00C42	.WORD	0	:
00000000	00C44	.LONG	0	:
0000	00C48	.WORD	0	:
00	00C4A	.BYTE	0	:
00	00C4B	.BYTE	0	:
0000	00C4C	.WORD	0	:
0000	00C4E	.WORD	0	:
00000000	00C50	.LONG	0	:
00000000	00C54	.ADDRESS	DISBUF	:
00000000	00C58	.LONG	0	:
00000000	00C5C	.LONG	0	:
00	00C60	.BYTE	0	:
00	00C61	.BYTE	0	:
00	00C62	.BYTE	0	:
00	00C63	.BYTE	0	:
00000000	00C64	.LONG	0	:
00000000	00C68	.ADDRESS	LSTFAB	:
00000000	00C6C	.LONG	0	:
02	00C70	.BYTE	2	:
60	00C71	.BYTE	96	:
00	00C72	.BYTE	0	:
00	00C73	.BYTE	0	:
00000000	00C74	.LONG	0	:
00	00C78	.BYTE	0	:
00	00C79	.BYTE	0	:
00	00C7A	.BYTE	0	:
00	00C7B	.BYTE	0	:

LSTRAB:

NLSTNAM:

00000000	00C7C	.LONG	0
00000000	00C80	.LONG	0
0000#	00C84	.WORD	0[8]
0000#	00C94	.WORD	0[3]
0000#	00C9A	.WORD	0[3]
00000000	00CA0	.LONG	0
00000000	00CA4	.LONG	0
00	00CA8	.BYTE	0
00	00CA9	.BYTE	0
00	00CAA	.BYTE	0
00	00CAB	.BYTE	0
00	00CAC	.BYTE	0
00	00CAD	.BYTE	0
00#	00CAE	.BYTE	0[2]
00000000	00CB0	.LONG	0
00000000	00CB4	.LONG	0
00000000	00CB8	.LONG	0
00000000	00CBC	.LONG	0
00000000	00CC0	.LONG	0
00000000	00CC4	.LONG	0
00000000#	00CC8	.LONG	0[2]
13	00CD0	NLSTPRO: .BYTE	19
58	00CD1	.BYTE	88
0000	00CD2	.WORD	0
00000000	00CD4	.LONG	0
FC44	00CD8	.WORD	-956
00	00CDA	.BYTE	0
00	00CDB	.BYTE	0
0000 0000	00CDC	.WORD	0, 0
00	00CE0	.BYTE	0
00	00CE1	.BYTE	0
0000	00CE2	.WORD	0
00000000	00CE4	.LONG	0
00000000	00CE8	.LONG	0
0000	00CEC	.WORD	0
0000	00CEE	.WORD	0
00000000	00CF0	.LONG	0
00000000	00CF4	.LONG	0
	00CF8	.BLKB	48
03	00D28	NLSTFAB: .BYTE	3
50	00D29	.BYTE	80
0000	00D2A	.WORD	0
00000000	00D2C	.LONG	0
00000000	00D30	.LONG	0
00000000	00D34	.LONG	0
00000000	00D38	.LONG	0
0000	00D3C	.WORD	0
01	00D3E	.BYTE	1
20	00D3F	.BYTE	32
00000000	00D40	.LONG	0
00	00D44	.BYTE	0
00	00D45	.BYTE	0
02	00D46	.BYTE	2
02	00D47	.BYTE	2
00000000	00D48	.LONG	0
00000000	00D4C	.ADDRESS	NLSTPRO
00000000	00D50	.ADDRESS	NLSTNAM

00000000	00D54	.ADDRESS	P.ACB
00000000	00D58	.LONG	0
0A	00D5C	.BYTE	10
00	00D5D	.BYTE	0
0084	00D5E	.WORD	132
00000000	00D60	.LONG	0
0000	00D64	.WORD	0
00	00D66	.BYTE	0
00	00D67	.BYTE	0
00000000	00D68	.LONG	0
00000000	00D6C	.LONG	0
0000	00D70	.WORD	0
00	00D72	.BYTE	0
00	00D73	.BYTE	0
00000000	00D74	.LONG	0
01	00D78	NLSTRAB: .BYTE	1
44	00D79	.BYTE	68
0000	00D7A	.WORD	0
00000000	00D7C	.LONG	0
00000000	00D80	.LONG	0
00000000	00D84	.LONG	0
0000#	00D88	.WORD	0[3]
0000	00D8E	.WORD	0
00000000	00D90	.LONG	0
0000	00D94	.WORD	0
00	00D96	.BYTE	0
00	00D97	.BYTE	0
0000	00D98	.WORD	0
0000	00D9A	.WORD	0
00000000	00D9C	.LONG	0
00000000	00DA0	.ADDRESS	DISBUF
00000000	00DA4	.LONG	0
00000000	00DA8	.LONG	0
00	00DAC	.BYTE	0
00	00DAD	.BYTE	0
00	00DAE	.BYTE	0
00	00DAF	.BYTE	0
00000000	00DB0	.LONG	0
00000000	00DB4	.ADDRESS	NLSTFAB
00000000	00DB8	.LONG	0
15	00DBC	UAFKEY2: .BYTE	21
4C	00DBD	.BYTE	76
0000	00DBE	.WORD	0
00000000	00DC0	.LONG	0
00	00DC4	.BYTE	0
00	00DC5	.BYTE	0
00	00DC6	.BYTE	0
00	00DC7	.BYTE	0
00	00DC8	.BYTE	0
00	00DC9	.BYTE	0
00000000	00DCA	.LONG	0
03	00DCE	.BYTE	3
02	00DCF	.BYTE	2
00	00DD0	.BYTE	0
00	00DD1	.BYTE	0
00	00DD2	.BYTE	0
02	00DD3	.BYTE	2

0000	00DD4	.WORD	0
0000	00DD6	.WORD	0
0000	00DD8	.WORD	0
0024	00DDA	.WORD	36
0000	00DDC	.WORD	0
0000	00DDE	.WORD	0
0000	00DE0	.WORD	0
0000	00DE2	.WORD	0
0000	00DE4	.WORD	0
0000	00DE6	.WORD	0
0000	00DE8	.WORD	0
02	00DEA	.BYTE	2
00	00DEB	.BYTE	0
00	00DEC	.BYTE	0
00	00DED	.BYTE	0
00	00DEE	.BYTE	0
00	00DEF	.BYTE	0
00	00DF0	.BYTE	0
00	00DF1	.BYTE	0
0000	00DF2	.WORD	0
00000000	00DF4	.LONG	0
00000000	00DF8	.LONG	0
00	00DFC	.BYTE	0
00	00DFD	.BYTE	0
00	00DFE	.BYTE	0
00	00DFF	.BYTE	0
00	00E00	.BYTE	0
00	00E01	.BYTE	0
00	00E02	.BYTE	0
00	00E03	.BYTE	0
00	00E04	.BYTE	0
00	00E05	.BYTE	0
00	00E06	.BLKB	2
15	00E08	.BYTE	21
4C	00E09	.BYTE	76
0000	00E0A	.WORD	0
00000000	00E0C	.ADDRESS	UAFKEY2
00	00E10	.BYTE	0
00	00E11	.BYTE	0
00	00E12	.BYTE	0
00	00E13	.BYTE	0
00	00E14	.BYTE	0
00	00E15	.BYTE	0
00000000	00E16	.LONG	0
03	00E1A	.BYTE	3
04	00E1B	.BYTE	4
00	00E1C	.BYTE	0
00	00E1D	.BYTE	0
00	00E1E	.BYTE	0
01	00E1F	.BYTE	1
0000	00E20	.WORD	0
0000	00E22	.WORD	0
0000	00E24	.WORD	0
0024	00E26	.WORD	36
0000	00E28	.WORD	0
0000	00E2A	.WORD	0
0000	00E2C	.WORD	0

UAFKEY1:

UAFKEY2

0000	00E2E	.WORD	0
0000	00E30	.WORD	0
0000	00E32	.WORD	0
0000	00E34	.WORD	0
04	00E36	.BYTE	4
00	00E37	.BYTE	0
00	00E38	.BYTE	0
00	00E39	.BYTE	0
00	00E3A	.BYTE	0
00	00E3B	.BYTE	0
00	00E3C	.BYTE	0
00	00E3D	.BYTE	0
0000	00E3E	.WORD	0
00000000	00E40	.LONG	0
00000000	00E44	.LONG	0
00	00E48	.BYTE	0
00	00E49	.BYTE	0
00	00E4A	.BYTE	0
00	00E4B	.BYTE	0
00	00E4C	.BYTE	0
00	00E4D	.BYTE	0
00	00E4E	.BYTE	0
00	00E4F	.BYTE	0
00	00E50	.BYTE	0
00	00E51	.BYTE	0
00	00E52	.BLKB	2
15	00E54	UAFKEY0: .BYTE	21
4C	00E55	.BYTE	76
0000	00E56	.WORD	0
00000000	00E58	.ADDRESS UAFKEY1	0
00	00E5C	.BYTE	0
00	00E5D	.BYTE	0
00	00E5E	.BYTE	0
00	00E5F	.BYTE	0
00	00E60	.BYTE	0
00	00E61	.BYTE	0
00000000	00E62	.LONG	0
00	00E66	.BYTE	0
00	00E67	.BYTE	0
00	00E68	.BYTE	0
00	00E69	.BYTE	0
00	00E6A	.BYTE	0
00	00E6B	.BYTE	0
0000	00E6C	.WORD	0
0000	00E6E	.WORD	0
0000	00E70	.WORD	0
0004	00E72	.WORD	4
0000	00E74	.WORD	0
0000	00E76	.WORD	0
0000	00E78	.WORD	0
0000	00E7A	.WORD	0
0000	00E7C	.WORD	0
0000	00E7E	.WORD	0
0000	00E80	.WORD	0
20	00E82	.BYTE	32
00	00E83	.BYTE	0
00	00E84	.BYTE	0

00	00E85	.BYTE	0
00	00E86	.BYTE	0
00	00E87	.BYTE	0
00	00E88	.BYTE	0
00	00E89	.BYTE	0
0000	00E8A	.WORD	0
00000000	00E8C	.LONG	0
00000000	00E90	.LONG	0
00	00E94	.BYTE	0
00	00E95	.BYTE	0
00	00E96	.BYTE	0
00	00E97	.BYTE	0
00	00E98	.BYTE	0
00	00E99	.BYTE	0
00	00E9A	.BYTE	0
00	00E9B	.BYTE	0
00	00E9C	.BYTE	0
00	00E9D	.BYTE	0
	00E9E	.BLKB	2
13	00EA0	UAFPRO: .BYTE	19
58	00EA1	.BYTE	88
0000	00EA2	.WORD	0
00000000	00EA4	.ADDRESS	UAFKEY0
FF00	00EA8	.WORD	-256
00	00EAA	.BYTE	0
00	00EAB	.BYTE	0
0000 0000	00EAC	.WORD	0, 0
00	00EB0	.BYTE	0
00	00EB1	.BYTE	0
0000	00EB2	.WORD	0
00000000	00EB4	.LONG	0
00000000	00EB8	.LONG	0
0000	00EBC	.WORD	0
0000	00EBE	.WORD	0
00000000	00EC0	.LONG	0
00000000	00EC4	.LONG	0
	00EC8	.BLKB	48
03	00EF8	UAFFAB: .BYTE	3
50	00EF9	.BYTE	80
0000	00EFA	.WORD	0
02000000	00EFC	.LONG	33554432
00000000	00F00	.LONG	0
00000000	00F04	.LONG	0
0000000A	00F08	.LONG	10
000A	00F0C	.WORD	10
0F	00F0E	.BYTE	15
0F	00F0F	.BYTE	15
00000000	00F10	.LONG	0
00	00F14	.BYTE	0
20	00F15	.BYTE	32
00	00F16	.BYTE	0
02	00F17	.BYTE	2
00000000	00F18	.LONG	0
00000000	00F1C	.ADDRESS	UAFPRO
00000000	00F20	.LONG	0
00000000	00F24	.ADDRESS	P.ACC
00000000	00F28	.ADDRESS	P.ACD

06	00F2C	.BYTE	6
04	00F2D	.BYTE	4
0584	00F2E	.WORD	1412
00000000	00F30	.LONG	0
0000	00F34	.WORD	0
00	00F36	.BYTE	0
00	00F37	.BYTE	0
00000000	00F38	.LONG	0
00000000	00F3C	.LONG	0
0000	00F40	.WORD	0
00	00F42	.BYTE	0
00	00F43	.BYTE	0
00000000	00F44	.LONG	0
15	00F48	NAFKEY1: .BYTE	21
4C	00F49	.BYTE	76
0000	00F4A	.WORD	0
00000000	00F4C	.LONG	0
00	00F50	.BYTE	0
00	00F51	.BYTE	0
00	00F52	.BYTE	0
00	00F53	.BYTE	0
00	00F54	.BYTE	0
00	00F55	.BYTE	0
00000000	00F56	.LONG	0
03	00F5A	.BYTE	3
00	00F5B	.BYTE	0
00	00F5C	.BYTE	0
00	00F5D	.BYTE	0
00	00F5E	.BYTE	0
01	00F5F	.BYTE	1
0000	00F60	.WORD	0
0000	00F62	.WORD	0
0000	00F64	.WORD	0
0040	00F66	.WORD	64
0000	00F68	.WORD	0
0000	00F6A	.WORD	0
0000	00F6C	.WORD	0
0000	00F6E	.WORD	0
0000	00F70	.WORD	0
0000	00F72	.WORD	0
0000	00F74	.WORD	0
20	00F76	.BYTE	32
00	00F77	.BYTE	0
00	00F78	.BYTE	0
00	00F79	.BYTE	0
00	00F7A	.BYTE	0
00	00F7B	.BYTE	0
00	00F7C	.BYTE	0
00	00F7D	.BYTE	0
0000	00F7E	.WORD	0
00000000	00F80	.LONG	0
00000000	00F84	.LONG	0
00	00F88	.BYTE	0
00	00F89	.BYTE	0
00	00F8A	.BYTE	0
00	00F8B	.BYTE	0
00	00F8C	.BYTE	0

.....

00	00F8D	.BYTE	0
00	00F8E	.BYTE	0
00	00F8F	.BYTE	0
00	00F90	.BYTE	0
00	00F91	.BYTE	0
00	00F92	.BLKB	2
15	00F94	NAFKEY0: .BYTE	21
4C	00F95	.BYTE	76
0000	00F96	.WORD	0
00000000	00F98	.ADDRESS NAFKEY1	0
00	00F9C	.BYTE	0
00	00F9D	.BYTE	0
00	00F9E	.BYTE	0
00	00F9F	.BYTE	0
00	00FA0	.BYTE	0
00	00FA1	.BYTE	0
00000000	00FA2	.LONG	0
00	00FA6	.BYTE	0
00	00FA7	.BYTE	0
00	00FA8	.BYTE	0
00	00FA9	.BYTE	0
00	00FAA	.BYTE	0
00	00FAB	.BYTE	0
0000	00FAC	.WORD	0
0000	00FAE	.WORD	0
0000	00FB0	.WORD	0
0000	00FB2	.WORD	0
0000	00FB4	.WORD	0
0000	00FB6	.WORD	0
0000	00FB8	.WORD	0
0000	00FBA	.WORD	0
0000	00FBC	.WORD	0
0000	00FBE	.WORD	0
0000	00FC0	.WORD	0
40	00FC2	.BYTE	64
00	00FC3	.BYTE	0
00	00FC4	.BYTE	0
00	00FC5	.BYTE	0
00	00FC6	.BYTE	0
00	00FC7	.BYTE	0
00	00FC8	.BYTE	0
00	00FC9	.BYTE	0
0000	00FCA	.WORD	0
00000000	00FCC	.LONG	0
00000000	00FD0	.LONG	0
00	00FD4	.BYTE	0
00	00FD5	.BYTE	0
00	00FD6	.BYTE	0
00	00FD7	.BYTE	0
00	00FD8	.BYTE	0
00	00FD9	.BYTE	0
00	00FDA	.BYTE	0
00	00FDB	.BYTE	0
00	00FDC	.BYTE	0
00	00FDD	.BYTE	0
00	00FDE	.BLKB	2
13	00FE0	NAFPRO: .BYTE	19

```

      58 00FE1 .BYTE 88
      0000 00FE2 .WORD 0
00000000' 00FE4 .ADDRESS NAFKEY0
      FF00 00FE8 .WORD -256
      00 00FEA .BYTE 0
      00 00FEB .BYTE 0
0000 0000 00FEC .WORD 0, 0
      00 00FF0 .BYTE 0
      00 00FF1 .BYTE 0
      0000 00FF2 .WORD 0
00000000 00FF4 .LONG 0
00000000 00FF8 .LONG 0
      0000 00FFC .WORD 0
      0000 00FFE .WORD 0
00000000 01000 .LONG 0
00000000 01004 .LONG 0
      03 01008 .BLKB 48
      50 01038 NAFFAB: .BYTE 3
      0000 01039 .BYTE 80
      02000000 0103A .WORD 0
      00000000 0103C .LONG 33554432
      00000000 01040 .LONG 0
      00000000 01044 .LONG 0
      0000000A 01048 .LONG 10
      000A 0104C .WORD 10
      0F 0104E .BYTE 15
      0F 0104F .BYTE 15
00000000 01050 .LONG 0
      00 01054 .BYTE 0
      20 01055 .BYTE 32
      00 01056 .BYTE 0
      01 01057 .BYTE 1
00000000 01058 .LONG 0
00000000' 0105C .ADDRESS NAFPRO
00000000 01060 .LONG 0
00000000' 01064 .ADDRESS P.ACE
00000000' 01068 .ADDRESS P.ACF
      06 0106C .BYTE 6
      04 0106D .BYTE 4
      0064 0106E .WORD 100
00000000 01070 .LONG 0
      0000 01074 .WORD 0
      00 01076 .BYTE 0
      00 01077 .BYTE 0
00000000 01078 .LONG 0
00000000 0107C .LONG 0
      0000 01080 .WORD 0
      00 01082 .BYTE 0
      00 01083 .BYTE 0
00000000 01084 .LONG 0
      01088 STATUS: .BLKB 4
      .PSECT $GLOBAL$,NOEXE,2
00000084 00000 DISBUF:: .BLKB 132
00000084 00084 DISDSC:: .LONG 132
00000000' 00088 .ADDRESS DISBUF
```


start - controlling code

N 12
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742 Page 33
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32:1 (3)

Address	Symbol	Value	Size
0008C	FAODSC::	.BLKB	8
00094	RABPTR::	.BLKB	4
00098	UAF\$GQ_SY\$UAFF::	.BLKB	8
000A0	UAF\$GL_CTLMSK::	.BLKB	8
00000000	000A8 BY_ACCOUNT::	.LONG	0
000AC	MATCH_TOKEN::	.BLKB	66
000EE		.BLKB	2
000F0	MATCH_TOKENLEN::	.BLKB	4
000F4	WILD_NETUSER::	.BLKB	4
00000000	000F8 CALL_COUNT::	.LONG	0
00#	000FC TOKENDSC::	.BYTE	0[3]
02	000FF	.BYTE	2
	00100	.BLKB	4
	00104 CMDLINDSC::	.BLKB	8
	0010C NETUAF_EXISTS::	.BLKB	4
	00110 RDB_EXISTS::	.BLKB	4
	00114 RMSERR::	.BLKB	4
	00118 RIGHTSLIST_MODIFIED::	.BLKB	1
	00119	.BLKB	3
	0011C RECBUF::	.BLKB	1412
	006A0 NETBUF::	.BLKB	100
01	00704 UAFRAB::	.BYTE	1
44	00705	.BYTE	68
0000	00706	.WORD	0
00000000	00708	.LONG	0
00000000	0070C	.LONG	0
00000000	00710	.LONG	0
0000#	00714	.WORD	0[3]
0000	0071A	.WORD	0
00000000	0071C	.LONG	0
0000	00720	.WORD	0
00	00722	.BYTE	0
00	00723	.BYTE	0
0584	00724	.WORD	1412
0000	00726	.WORD	0
00000000	00728	.LONG	0
00000000	0072C	.LONG	0
00000000	00730	.LONG	0
00000000	00734	.ADDRESS	RECBUF+4
20	00738	.BYTE	32
00	00739	.BYTE	0
00	0073A	.BYTE	0
00	0073B	.BYTE	0
00000000	0073C	.LONG	0
00000000	00740	.ADDRESS	UAFFAB

```
00000000 00744 .LONG 0
      01 00748 NAFRAB: .BYTE 1
      44 00749 .BYTE 68
      0000 0074A .WORD 0
00000000 0074C .LONG 0
00000000 00750 .LONG 0
00000000 00754 .LONG 0
      0000# 00758 .WORD 0[3]
      0000 0075E .WORD 0
00000000 00760 .LONG 0
      0000 00764 .WORD 0
      01 00766 .BYTE 1
      00 00767 .BYTE 0
      0064 00768 .WORD 100
      0064 0076A .WORD 100
00000000 0076C .LONG 0
00000000 00770 .LONG 0
00000000 00774 .LONG 0
00000000 00778 .ADDRESS NETBUF
      40 0077C .BYTE 64
      00 0077D .BYTE 0
      00 0077E .BYTE 0
      00 0077F .BYTE 0
00000000 00780 .LONG 0
00000000 00784 .ADDRESS NAFFAB
00000000 00788 .LONG 0
      0078C TIME_BUF: .BLKB 8
      00794 PWD_FLAG: .BLKB 4
      01 00798 OUTRAB: .BYTE 1
      44 00799 .BYTE 68
      0000 0079A .WORD 0
00000000 0079C .LONG 0
00000000 007A0 .LONG 0
00000000 007A4 .LONG 0
      0000# 007A8 .WORD 0[3]
      0000 007AE .WORD 0
00000000 007B0 .LONG 0
      0000 007B4 .WORD 0
      00 007B6 .BYTE 0
      00 007B7 .BYTE 0
      0000 007B8 .WORD 0
      0000 007BA .WORD 0
00000000 007BC .LONG 0
00000000 007C0 .ADDRESS DISBUF
00000000 007C4 .LONG 0
00000000 007C8 .LONG 0
      00 007CC .BYTE 0
      00 007CD .BYTE 0
      00 007CE .BYTE 0
      00 007CF .BYTE 0
00000000 007D0 .LONG 0
00000000 007D4 .ADDRESS OUTFAB
00000000 007D8 .LONG 0
      007DC FOUND_MATCH: .BLKB 4
```


007E0 UIC_FLAG::
 .BLKB 4
007E4 GRP_WILD::
 .BLKB 4
007E8 MEM_WILD::
 .BLKB 4
007EC STR_WILD::
 .BLKB 4

SD_TOKEN1= P.AAA
SD_TOKEN2= P.AAC
SD_BRIEF= P.AAE
SD_FULL= P.AAG
SD_ADD_IDENTIFIER= P.AAI
SD_REMOVE_IDENTIFIER= P.AAK
SD_MODIFY_IDENTIFIER= P.AAM
ENCRYPT== 2
DISBUFLN== 132
SYSUAF_STRING= P.AAP
NETUAF_STRING= P.AAQ
MOD_ACT_DSC= P.AAR
ADD_ACT_DSC= P.AAT
REM_ACT_DSC= P.AAV
FAO_LIN_DSC= P.AAX
DBL_COLON= P.AAZ
WAKEDELTA= P.ABB
DEFUSER= P.ABC
DEFPASS= P.ABD
DEFCLITABL= P.ABE
DEFACT= P.ABF
DEFCLI= P.ABG
DEFOWNER= P.ABH
DEFLGICMD= P.ABI
DEFGRP= 128
DEFMEM= 128
DEFDIR= P.ABJ
DEFDEV= P.ABK
DEFBIOLM= 6
DEFBYTLM= 4096
DEFDIOLM= 6
DEFFILLM= 20
DEFFLAGS= 0
DEFTQCNT= 10
DEFPRCNT= 2
DEFPRI= 4
DEFQUEPRI= 4
DEFWSQUOTA= 200
DEFDFWSCNT= 150
DEFWSEXTENT= 500
DEFPCPUTIM= 0
DEFASTLM= 10
DEFPGFLQUOTA= 10000
DEFENQLM= 10
DEFPBYTLM= 0
DEFSHRFILLM= 0


```

DEFMAXJOBS= 0
DEFMAXACCTJOBS= 0
DEFMAXDETACH= 0
DEFJTQUOTA= 1024
DEFPRIMEDAYS= 96
DEFHOURS= 0
DEFPRIV= P.ABL
DEFPWDLENGTH= 6
DEFPWDLIFE= P.ABM
SYSUSER= P.ABN
SYSPASS= P.ABO
SYSCLITABL= P.ABP
SYSACT= P.ABQ
SYSCLI= P.ABR
SYSOWNER= P.ABS
SYSLGICMD= P.ABT
SYSGRP= 1
SYSTEM= 4
SYSDIR= P.ABU
SYSDEV= P.ABV
SYSBIOLM= 12
SYSBYTLM= 20480
SYSDIOLM= 12
SYSFILLM= 20
SYSFLAGS= 0
SYSTQCNT= 20
SYSPRCNT= 10
SYSPRI= 4
SYSQUEPRI= 4
SYSWSQUOTA= 350
SYSWSEXTENT= 1024
SYSDFWSCNT= 150
SYSCPUTIM= 0
SYSASTLM= 20
SYSPGFLQUOTA= 10000
SYSENQLM= 20
SYSPBYTLM= 0
SYSSHRFILLM= 0
SYSMAXJOBS= 0
SYSMAXDETACH= 0
SYSJTQUOTA= 1024
SYSMAXACCTJOBS= 0
SYSPRIMEDAYS= 96
SYSHOURS= 0
SYSPRIV= P.ABW
SYSPWDLENGTH= 8
SYSPWDLIFE= P.ABX
TOKENLEN== TOKENDSC
TOKENPTR== TOKENDSC+4
REC_USER_DSC== P.ACG
REC_ENCRYPT_DSC== P.ACH
SYMBOL_STR== P.ACI
ACCPMPT= P.ACJ
ACCPMPT2= P.ACK
NEWMMSG20= P.ACL
FOREIGN_CMDLINDSC= P.ACM
      .EXTRN CLIS_BUFOVF, CLIS_NOCLINT

```



```
.EXTRN LBR$OUTPUT_HELP
.EXTRN LIB$GET_FOREIGN
.EXTRN LIB$GET_INPUT, LIB$PUT_OUTPUT
.EXTRN FMG$MATCH_NAME, CLISDC PARSE
.EXTRN CLISDISPATCH, CLISPRESENT
.EXTRN CLISGET_VALUE, UPDATE_RECORD
.EXTRN PARSE_WILD, LGISHPWD
.EXTRN UAF$ADD_IDENT_RECBUF
.EXTRN UAF$BUILT_HOLD
.EXTRN UAF$FIND_OIC, UAF$REMOVE_IDENT_RECBUF
.EXTRN UAF$WRITE_RIGHTS
.EXTRN EXESGL_SYSUIC, RDB_HEADER_FLAG
.EXTRN RDB_LIST_FLAG, ATTRIBUTES
.EXTRN HOLDER, IDENT, AUTHORIZE_COMMANDS
.EXTRN PRV$AB_NAMES, LIB$SIGNAL
.EXTRN UAF$_ADDERR, UAF$_ADDMSG
.EXTRN UAF$_BADNODFORM
.EXTRN UAF$_BADSPC, UAF$_BADUSR
.EXTRN UAF$_CLIWARNMSG
.EXTRN UAF$_CMDTOOLONG
.EXTRN UAF$_CONERR, UAF$_COPMSG
.EXTRN UAF$_CREERR, UAF$_DEFERR
.EXTRN UAF$_DEFPWD, UAF$_DONEMSG
.EXTRN UAF$_GETERR, UAF$_HELPERR
.EXTRN UAF$_INVCMD, UAF$_INVRSP
.EXTRN UAF$_INVUSERNAME
.EXTRN UAF$_KEYNOTFND, UAF$_KEYNOTUNQ
.EXTRN UAF$_LSTERR, UAF$_LSTMSG1
.EXTRN UAF$_LSTMSG2, UAF$_MDFYERR
.EXTRN UAF$_MDFYMSG, UAF$_NAFADDERR
.EXTRN UAF$_NAFADDMSG, UAF$_NAFAEX
.EXTRN UAF$_NAFCONERR, UAF$_NAFCREERR
.EXTRN UAF$_NAFDNE, UAF$_NAFDONEMSG
.EXTRN UAF$_NAFNOMODS, UAF$_NAFUAEERR
.EXTRN UAF$_NAMETOOBIG
.EXTRN UAF$_NETLSTMSG, UAF$_NAOFIL
.EXTRN UAF$_NAONAF, UAF$_NOARG
.EXTRN UAF$_NODEFPWD, UAF$_NODTOOBIG
.EXTRN UAF$_NOMODS, UAF$_NOTUNQ
.EXTRN UAF$_NOUSERNAME
.EXTRN UAF$_PREMMSG, UAF$_PUTERR
.EXTRN UAF$_RDBDONEMSG
.EXTRN UAF$_RDBMDFYERR
.EXTRN UAF$_RDBMDFYERRU
.EXTRN UAF$_RDBMDFYMSG
.EXTRN UAF$_RDBNOMODS, UAF$_REDEF
.EXTRN UAF$_REMERR, UAF$_REMMSG
.EXTRN UAF$_REMSYS, UAF$_RENDEF
.EXTRN UAF$_RENMSG, UAF$_RENSYS
.EXTRN UAF$_RONLY, UAF$_SHOW_ERR
.EXTRN UAF$_SYSMSG1, UAF$_SYSMSG2
.EXTRN UAF$_UAEERR, UAF$_OICERR
.EXTRN UAF$_ZISQUAL, UAF$_ZZPRACREN
.EXTRN SYSS$OPEN, SYSS$CONNECT
.EXTRN SYSS$CREATE

.PSECT $CODE$,NOWRT,2
```


			OFFC	00000	START:	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	: 0902
	5B	00000000G	00	9E	00002	MOVAB	AUTHORIZE COMMANDS, R11	:
	5A	00000000G	00	9E	00009	MOVAB	SYSSCONNECT, R10	:
	59	00000000G	8F	D0	00010	MOVL	#CLIS NOCLINT, R9	:
	58	00000000G	00	9E	00017	MOVAB	LIB\$STOP, R8	:
	57	00000000'	00	9E	0001E	MOVAB	CMDLINDSC, R7	:
	56	00000000'	00	9E	00025	MOVAB	STATUS, R6	:
		14	A7	94	0002C	CLRB	RIGHTSLIST MODIFIED	: 0947
		EFC4	C6	7C	0002F	CLRQ	MODIFY_FLAG	: 0949
		F9B8	C6	9F	00033	PUSHAB	INFAB	: 0955
00000000G	00		01	FB	00037	CALLS	#1, SYSSOPEN	:
	66		50	D0	0003E	MOVL	R0, STATUS	:
10	A7		50	D0	00041	MOVL	R0, RMSERR	:
	05		50	E8	00045	BLBS	R0, 1\$:
			66	DD	00048	PUSHL	STATUS	: 0957
	68		01	FB	0004A	CALLS	#1, LIB\$STOP	:
		FA08	C6	9F	0004D	PUSHAB	INRAB	: 0959
	6A		01	FB	00051	CALLS	#1, SYSSCONNECT	:
	66		50	D0	00054	MOVL	R0, STATUS	:
10	A7		50	D0	00057	MOVL	R0, RMSERR	:
	05		50	E8	0005B	BLBS	R0, 2\$:
			66	DD	0005E	PUSHL	STATUS	: 0961
	68		01	FB	00060	CALLS	#1, LIB\$STOP	:
		FA4C	C6	9F	00063	PUSHAB	OUTFAB	: 0963
00000000G	00		01	FB	00067	CALLS	#1, SYSSCREATE	:
		0694	C7	9F	0006E	PUSHAB	OUTRAB	: 0964
	6A		01	FB	00072	CALLS	#1, SYSSCONNECT	:
00000000V	00		00	FB	00075	CALLS	#0, SETUP	: 0966
			57	DD	0007C	PUSHL	R7	: 0973
			7E	D4	0007E	CLRL	-(SP)	:
		00000000'	00	9F	00080	PUSHAB	FOREIGN CMDLINDSC	:
00000000G	00		03	FB	00086	CALLS	#3, LIB\$GET_FOREIGN	:
	30		50	E9	0008D	BLBC	R0, 4\$:
			67	D5	00090	TSTL	CMDLINDSC	:
			2C	13	00092	BEQL	4\$:
04	A7		C6	9E	00094	MOVAB	CMDBUF, CMDLINDSC+4	: 0979
		F018	8F	BB	0009A	PUSHR	#^M<R7,R11>	: 0981
		0880	02	FB	0009E	CALLS	#2, CLISDCL_PARSE	:
00000000G	00		50	D0	000A5	MOVL	R0, STATUS	:
	66		50	E9	000A8	BLBC	R0, 3\$:
00000000G	00		00	FB	000AB	CALLS	#0, CLISDISPATCH	: 0984
			43	11	000B2	BRB	7\$: 0985
	59		66	D1	000B4	CMPL	STATUS, R9	: 0991
			37	13	000B7	BEQL	6\$:
00000000V	00		00	FB	000B9	CALLS	#0, ACCSEXIT	: 0995
00000000V	00		00	FB	000C0	CALLS	#0, GET_CMD_LINE	: 1008
	F6		50	E9	000C7	BLBC	R0, 4\$:
		0880	8F	BB	000CA	PUSHR	#^M<R7,R11>	: 1010
00000000G	00		02	FB	000CE	CALLS	#2, CLISDCL_PARSE	:
	66		50	D0	000D5	MOVL	R0, STATUS	:
	10		50	E9	000D8	BLBC	R0, 5\$:
08	00		00	2C	000DB	MOVCS	#0, (SP), #0, #8, UAF\$GL_CTLMSK	: 1013
		9C	A7		000E0			:
00000000G	00		00	FB	000E2	CALLS	#0, CLISDISPATCH	: 1014
			D5	11	000E9	BRB	4\$: 1010
	59		66	D1	000EB	CMPL	STATUS, R9	: 1017

UAFMAIN
V04-000

start - controlling code

G 13
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 Page 39
(3)

	D0	12	000EE		BNEQ	4\$:	
	59	DD	000F0	6\$:	PUSHL	R9		:	1019
68	01	FB	000F2		CALLS	#1, LIB\$STOP		:	
	C9	11	000F5		BRB	4\$:	1010
50	01	D0	000F7	7\$:	MOVL	#1, R0		:	1022
		04	000FA		RET			:	1024

; Routine Size: 251 bytes, Routine Base: \$CODE\$ + 0000

UA
VO

setup - open initial files

```

: 933      1025 1 %sbttl 'setup - open initial files'
: 934      1026 1 routine setup : novalue =
: 935      1027 2 begin
: 936      1028 2
: 937      1029 2 ++
: 938      1030 2
: 939      1031 2 FUNCTIONAL DESCRIPTION:
: 940      1032 2
: 941      1033 2     This routine does all of the initial file manipulation for the
: 942      1034 2     program. It determines whether or not a previous SYSUAF.DAT exists.
: 943      1035 2     If not, it creates one (if the user wishes to proceed).
: 944      1036 2
: 945      1037 2 INPUTS:
: 946      1038 2
: 947      1039 2     none
: 948      1040 2
: 949      1041 2 IMPLICIT INPUTS:
: 950      1042 2
: 951      1043 2     none
: 952      1044 2
: 953      1045 2 OUTPUTS:
: 954      1046 2
: 955      1047 2     none
: 956      1048 2
: 957      1049 2 IMPLICIT OUTPUTS:
: 958      1050 2
: 959      1051 2     none
: 960      1052 2
: 961      1053 2 ROUTINE VALUE:
: 962      1054 2
: 963      1055 2     none
: 964      1056 2
: 965      1057 2 SIDE EFFECTS:
: 966      1058 2
: 967      1059 2     none
: 968      1060 2 --
: 969      1061 2
: 970      1062 2 local
: 971      1063 2     status      : long,
: 972      1064 2     curpriv    : vector [2],
: 973      1065 2     procpriv   : vector [2],
: 974      1066 2     item_list   : block [64, byte],
: 975      1067 2     newfile;      ! indicates new file must
: 976      1068 2                      ! be created.
: 977      1069 2
: 978      1070 2 item_list [0,0,16,0] = 4;
: 979      1071 2 item_list [2,0,16,0] = jpi$_pid;
: 980      1072 2 item_list [4,0,32,0] = pid;
: 981      1073 2 item_list [8,0,32,0] = 0;
: 982      1074 2 item_list [12,0,16,0] = 12;
: 983      1075 2 item_list [14,0,16,0] = jpi$_username;
: 984      1076 2 item_list [16,0,32,0] = username_buf;
: 985      1077 2 item_list [20,0,32,0] = username_dsc[0];
: 986      1078 2 item_list [24,0,16,0] = 8;
: 987      1079 2 item_list [26,0,16,0] = jpi$_curpriv;
: 988      1080 2 item_list [28,0,32,0] = curpriv;
: 989      1081 2 item_list [32,0,32,0] = 0;
```


setup - open initial files

```

990 1082 2 item_list [36,0,16,0] = 8;
991 1083 2 item_list [38,0,16,0] = jpi$_procpriv;
992 1084 2 item_list [40,0,32,0] = procpriv;
993 1085 2 item_list [44,0,32,0] = 0;
994 1086 2 item_list [48,0,16,0] = 4;
995 1087 2 item_list [50,0,16,0] = jpi$_sts;
996 1088 2 item_list [52,0,32,0] = pcb$_sts;
997 1089 2 item_list [56,0,32,0] = 0;
998 1090 2 item_list [60,0,32,0] = 0;
999 1091 2
1000 1092 2 $getjpi (itmlst = item_list);          ! Obtain pid, username and privs
1001 1093 2
1002 1094 2 username_dsc[0] = namelen (uaf$_username, username_buf);
1003 1095 2
1004 1096 2 *****
1005 1097 2
1006 1098 2 Open SYSUAF.DAT
1007 1099 2
1008 1100 2 *****
1009 1101 2
1010 1102 2 newfile = false;                      ! note no new file yet
1011 1103 2
1012 1104 3 if rmsbad ($open (fab = uaffab))
1013 1105 2 then
1014 1106 2
1015 1107 2 sysuaf.dat doesn't exist
1016 1108 2
1017 1109 3 begin
1018 1110 3 LIB$SIGNAL(UAF$_NAOFIL, 0, .rmserr);
1019 1111 3 if .rmserr eql rms$_fnf
1020 1112 3 then
1021 1113 4 begin
1022 1114 4 while true
1023 1115 4 do
1024 1116 4
1025 1117 4 Ask if a new one is desired
1026 1118 4
1027 1119 5 begin
1028 1120 5 ask (newmsg20, cmdbuf[0], cmdbuflen);
1029 1121 5 if .cmdbuf [0] eql 'Y'
1030 1122 5 then exitloop newfile = true;
1031 1123 5 if .cmdbuf [0] eql 'N'
1032 1124 5 then acc$exit ();
1033 1125 5 LIB$SIGNAL(UAF$_INVRSP);
1034 1126 4 end;
1035 1127 4 end
1036 1128 3 else
1037 1129 3 acc$exit ();
1038 1130 2 end;
1039 1131 2
1040 1132 2
1041 1133 2
1042 1134 2 The file will be created if it does not already exist.
1043 1135 2 In any case connect the RAB.
1044 1136 2
1045 1137 2
1046 1138 2 if .newfile
```

setup - open initial files

```
1047 1139 2 then
1048 1140 2
1049 1141 2 A new file is requested
1050 1142 2
1051 1143 2 if rmsbad ($create (fab = uaffab))
1052 1144 2 then
1053 1145 2
1054 1146 2 Quit regardless of error on a $CREATE: don't
1055 1147 2 want to give read-only user ability to create a file
1056 1148 2
1057 1149 2 LIB$SIGNAL(UAF$_CREERR, 0, .rmserr);
1058 1150 2
1059 1151 2 if rmsbad ($connect (rab = uafrab))
1060 1152 2 then LIB$SIGNAL(UAF$_CONERR, 0, .rmserr);
1061 1153 2 uafrab[rab$b_rac] = rab$b_key; ! normal access is by key
1062 1154 2
1063 1155 2
1064 1156 2 Check to see if there was no old file to use. If so write a default and
1065 1157 2 a system manager record.
1066 1158 2
1067 1159 2
1068 1160 2 if .newfile
1069 1161 2 then
1070 1162 2 begin
1071 1163 2 modify_flag = true; ! must rename when done
1072 1164 2 build_ini_recs (); ! build default and system manager records
1073 1165 2 uafrab[rab$w_rsz] = uaf$c_fixed;
1074 1166 2
1075 1167 2 default_size = uaf$c_fixed;
1076 1168 2 uafrab[rab$l_rbf] = default_record; ! insert default record address
1077 1169 2 if rmsbad ($put (rab = uafrab))
1078 1170 2 then LIB$SIGNAL(UAF$_PUTERR, 0, .rmserr); ! report error
1079 1171 2 uafrab[rab$l_rbf] = recbuf; ! establish proper address (and
1080 1172 2 ! address of system record)
1081 1173 2 if rmsbad ($put (rab = uafrab)) ! output system record
1082 1174 2 then LIB$SIGNAL(UAF$_PUTERR, 0, .rmserr);
1083 1175 2 end
1084 1176 2 else
1085 1177 2
1086 1178 2 Read in the default record.
1087 1179 2
1088 1180 2 begin
1089 1181 2 uafrab[rab$l_ubf] = default_record;
1090 1182 2 if not locate_user (.defuser<0,8>, defuser+1, false)
1091 1183 2 then LIB$SIGNAL(UAF$_DEFERR, 0, .rmserr);
1092 1184 2 default_size = .uafrab[rab$w_rsz];
1093 1185 2 end;
1094 1186 2
1095 1187 2 uafrab[rab$l_ubf] = recbuf; ! establish proper addresses
1096 1188 2 uafrab[rab$l_rbf] = recbuf;
1097 1189 2
1098 1190 2 *****
1099 1191 2
1100 1192 2 Open NETUAF.DAT
1101 1193 2
1102 1194 2 *****
1103 1195 2
```


setup - open initial files

```
1104 1196 2 netuaf_exists = true;           ! Assume NETUAF.DAT exists...
1105 1197 2
1106 1198 2
1107 1199 2 Try to open NETUAF.DAT and see what happens...
1108 1200 2
1109 1201 2 if rmsbad ($open (fab = naffab))
1110 1202 2 then
1111 1203 2
1112 1204 2 Couldn't open it
1113 1205 2
1114 1206 2 if .rmserr eql rms$_fnf
1115 1207 2 then
1116 1208 2 netuaf_exists = false           ! it doesn't exist
1117 1209 2 else
1118 1210 2 LIB$SIGNAL(UAF$_NAONAF, 0, .rmserr) ! open error for some other reason
1119 1211 2
1120 1212 2 else
1121 1213 2
1122 1214 2 NETUAF.DAT opened without error
1123 1215 2
1124 1216 2 if rmsbad ($connect (rab = nafrab))
1125 1217 2 then LIB$SIGNAL(UAF$_NAFCONERR) ! connect error
1126 1218 2
1127 1219 2 Everything opened and connected, establish proper NETUAF addresses
1128 1220 2
1129 1221 2 else
1130 1222 2 begin
1131 1223 2 nafrab [rab$_ubf] = netbuf;
1132 1224 2 nafrab [rab$_rbf] = netbuf;
1133 1225 2 end;
1134 1226 2
1135 1227 2
1136 1228 2 Check to see if the rights data base exists. Try to translate an ID
1137 1229 2 and if we get a file not found error then it doesn't exist.
1138 1230 2
1139 1231 2 ident[uic$_v_format] = uic$_k_uic_format ;
1140 1232 2 ident[uic$_v_group] = 1 ;
1141 1233 2 ident[uic$_v_member] = 4 ;
1142 1234 2 status = $idtoasc ( id = .ident ) ;
1143 1235 2 if .status eql rms$_fnf
1144 1236 2 then rdb_exists = false
1145 1237 2 else rdb_exists = true ;
1146 1238 2
1147 1239 1 end;
```

```
.EXTRN SYSS$GETJPI, SYSS$PUT
.EXTRN SYSS$IDTOASC
```

```
0FFC 00000 SETUP: .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
5B 00000000G 00 9E 00002 MOVAB SYSS$PUT, R11
5A 00000000G 00 9E 00009 MOVAB SYSS$CONNECT, R10
59 00000000V 00 9E 00010 MOVAB ACC$EXIT, R9
58 00000000G 00 9E 00017 MOVAB SYSS$OPEN, R8
57 000000000 00 9E 0001E MOVAB NEWMSG20, R7
56 00000000G 00 9E 00025 MOVAB IDENT, R6
```

: 1026

		55	00000000G	00	9E	0002C	MOVAB	LIB\$SIGNAL, R5		
		54	00000000	00	9E	00033	MOVAB	USERNAME_BUF, R4		
		53	00000000	00	9E	0003A	MOVAB	RMSERR, R3		
		5E	B4	AE	9E	00041	MOVAB	-76(SP), SP		
			03190004	8F	DD	00045	PUSHL	#51970052	1070	
04	AE		24	A4	9E	0004B	MOVAB	PID, ITEM_LIST+4	1072	
			08	AE	D4	00050	CLRL	ITEM_LIST+8	1073	
0C	AE	0202000C		8F	D0	00053	MOVL	#33685516, ITEM_LIST+12	1074	
10	AE			64	9E	0005B	MOVAB	USERNAME_BUF, ITEM_LIST+16	1076	
14	AE		28	A4	9E	0005F	MOVAB	USERNAME_DSC, ITEM_LIST+20	1077	
18	AE	04000008		8F	D0	00064	MOVL	#67108872, ITEM_LIST+24	1078	
1C	AE		48	AE	9E	0006C	MOVAB	CURPRIV, ITEM_LIST+28	1080	
			20	AE	D4	00071	CLRL	ITEM_LIST+32	1081	
24	AE	02040008		8F	D0	00074	MOVL	#33816584, ITEM_LIST+36	1082	
28	AE		40	AE	9E	0007C	MOVAB	PROCPRIV, ITEM_LIST+40	1084	
			2C	AE	D4	00081	CLRL	ITEM_LIST+44	1085	
30	AE	03050004		8F	D0	00084	MOVL	#50659332, ITEM_LIST+48	1086	
34	AE		20	A4	9E	0008C	MOVAB	PCB_STS, ITEM_LIST+52	1088	
			38	AE	7C	00091	CLRQ	ITEM_LIST+56	1089	
				7E	7C	00094	CLRQ	-(SP)	1092	
				7E	D4	00096	CLRL	-(SP)		
		0C		AE	9F	00098	PUSHAB	ITEM_LIST		
				7E	7C	0009B	CLRQ	-(SP)		
				7E	D4	0009D	CLRL	-(SP)		
		00000000G	00	07	FB	0009F	CALLS	#7, SYS\$GETJPI		
28	64		20	20	3A	000A6	LOCC	#32, #32, USERNAME_BUF	1094	
A4			20	50	C3	000AA	SUBL3	R0, #32, USERNAME_DSC		
				52	D4	000AF	CLRL	NEWFILE	1102	
				C4	9F	000B1	PUSHAB	UAFFAB	1104	
			68	01	FB	000B5	CALLS	#1, SYS\$OPEN		
			63	50	D0	000B8	MOVL	R0, RMSERR		
			4F	50	E8	000BB	BLBS	R0, 5\$		
				63	DD	000BE	PUSHL	RMSERR	1110	
				7E	D4	000C0	CLRL	-(SP)		
		00000000G		8F	DD	000C2	PUSHL	#UAF\$ NAOFIL		
			65	03	FB	000C8	CALLS	#3, LIB\$SIGNAL		
00018292			8F	63	D1	000CB	CMPL	RMSERR, #98962	1111	
				36	12	000D2	BNEQ	4\$		
			7E	8F	3C	000D4	MOVZWL	#1024, -(SP)	1120	
			0098	C4	9F	000D9	PUSHAB	CMDBUF		
				57	DD	000DD	PUSHL	R7		
00000000V	00			03	FB	000DF	CALLS	#3, ASK		
	50		0098	C4	9A	000E6	MOVZBL	CMDBUF, R0	1121	
59	8F			50	91	000EB	CMPB	R0, #89		
				05	12	000EF	BNEQ	2\$		
			52	01	D0	000F1	MOVL	#1, NEWFILE	1122	
				17	11	000F4	BRB	5\$		
4E	8F			50	91	000F6	CMPB	R0, #78	1123	
				03	12	000FA	BNEQ	3\$		
			69	00	FB	000FC	CALLS	#0, ACC\$EXIT	1124	
		00000000G		8F	DD	000FF	PUSHL	#UAF\$ INVRSP	1125	
			65	01	FB	00105	CALLS	#1, LIB\$SIGNAL		
				CA	11	00108	BRB	1\$	1114	
			69	00	FB	0010A	CALLS	#0, ACC\$EXIT	1129	
			1E	52	E9	0010D	BLBC	NEWFILE, 6\$	1138	
				C4	9F	00110	PUSHAB	UAFFAB	1143	
00000000G	00			01	FB	00114	CALLS	#1, SYS\$CREATE		

63	50	D0	0011B	MOVL	R0, RMSERR	:
0D	50	E8	0011E	BLBS	R0, 6\$:
	63	DD	00121	PUSHL	RMSERR	1149
	7E	D4	00123	CLRL	-(SP)	:
00000000G	8F	DD	00125	PUSHL	#UAF\$ CREERR	:
65	03	FB	0012B	CALLS	#3, LIB\$SIGNAL	:
05F0	C3	9F	0012E	PUSHAB	UAFRAB	1151
	01	FB	00132	CALLS	#1, SYSS\$CONNECT	:
6A	50	D0	00135	MOVL	R0, RMSERR	:
63	50	E8	00138	BLBS	R0, 7\$:
0D	63	DD	0013B	PUSHL	RMSERR	1152
	7E	D4	0013D	CLRL	-(SP)	:
00000000G	8F	DD	0013F	PUSHL	#UAF\$ CONERR	:
65	03	FB	00145	CALLS	#3, LIB\$SIGNAL	:
060E	01	90	00148	MOVB	#1, UAFRAB+30	1153
	52	E9	0014D	BLBC	NEWFILE, 9\$	1160
44	01	D0	00150	MOVL	#1, MODIFY_FLAG	1163
00000000V	00	FB	00154	CALLS	#0, BUILD_INI_RECS	1164
0612	8F	B0	0015B	MOVW	#644, UAFRAB+34	1165
0498	8F	B0	00162	MOVW	#644, DEFAULT_SIZE	1167
0618	C4	9E	00169	MOVAB	DEFAULT_RECORD, UAFRAB+40	1168
	C3	9F	00170	PUSHAB	UAFRAB	1169
	01	FB	00174	CALLS	#1, SYSS\$PUT	:
6B	50	D0	00177	MOVL	R0, RMSERR	:
63	50	E8	0017A	BLBS	R0, 8\$:
0D	63	DD	0017D	PUSHL	RMSERR	1170
	7E	D4	0017F	CLRL	-(SP)	:
00000000G	8F	DD	00181	PUSHL	#UAF\$ PUTERR	:
65	03	FB	00187	CALLS	#3, LIB\$SIGNAL	:
0618	A3	9E	0018A	MOVAB	RECBUF, UAFRAB+40	1171
	C3	9F	00190	PUSHAB	UAFRAB	1173
	01	FB	00194	CALLS	#1, SYSS\$PUT	:
6B	50	D0	00197	MOVL	R0, RMSERR	:
63	50	E8	0019A	BLBS	R0, 11\$:
3F	63	DD	0019D	PUSHL	RMSERR	1174
	7E	D4	0019F	CLRL	-(SP)	:
00000000G	8F	DD	001A1	PUSHL	#UAF\$ PUTERR	:
65	03	FB	001A7	CALLS	#3, LIB\$SIGNAL	:
	30	11	001AA	BRB	11\$	1160
0614	C4	9E	001AC	MOVAB	DEFAULT_RECORD, UAFRAB+36	1181
	7E	D4	001B3	CLRL	-(SP)	1182
	C7	9F	001B5	PUSHAB	DEFUSER+1	:
	C7	9A	001B9	MOVZBL	DEFUSER, -(SP)	:
00000000V	03	FB	001BE	CALLS	#3, LOCATE_USER	:
	50	E8	001C5	BLBS	R0, 10\$:
	63	DD	001C8	PUSHL	RMSERR	1183
	7E	D4	001CA	CLRL	-(SP)	:
00000000G	8F	DD	001CC	PUSHL	#UAF\$ DEFERR	:
65	03	FB	001D2	CALLS	#3, LIB\$SIGNAL	:
0498	C3	B0	001D5	MOVW	UAFRAB+34, DEFAULT_SIZE	1184
0614	A3	9E	001DC	MOVAB	RECBUF, UAFRAB+36	1187
0618	A3	9E	001E2	MOVAB	RECBUF, UAFRAB+40	1188
F8	01	D0	001E8	MOVL	#1, NETUAF_EXISTS	1196
	C4	9F	001EC	PUSHAB	NAFFAB	1201
	01	FB	001F0	CALLS	#1, SYSS\$OPEN	:
68	50	D0	001F3	MOVL	R0, RMSERR	:
63	50	E8	001F6	BLBS	R0, 13\$:
20						:

UAFMAIN
V04-000

setup - open initial files

N 13

16-Sep-1984 02:16:54

14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742

DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1

Page 46

(4)

			50	63	D0	001F9	MOVL	RMSERR, R0	:	1206
	00018292		8F	50	D1	001FC	CMPL	R0, #98962	:	
				05	12	00203	BNEQ	12\$:	
		F8		A3	D4	00205	CLRL	NETUAF_EXISTS	:	1208
				35	11	00208	BRB	15\$:	
				50	DD	0020A	PUSHL	R0	:	1210
				7E	D4	0020C	CLRL	-(SP)	:	
			00000000G	8F	DD	0020E	PUSHL	#UAF\$ NAONAF	:	
	65			03	FB	00214	CALLS	#3, LIB\$SIGNAL	:	
				26	11	00217	BRB	15\$:	1206
		0634		C3	9F	00219	PUSHAB	NAFRAB	:	1216
	6A			01	FB	0021D	CALLS	#1, SYSS\$CONNECT	:	
	63			50	D0	00220	MOVL	R0, RMSERR	:	
	0B			50	E8	00223	BLBS	R0, 14\$:	
			00000000G	8F	DD	00226	PUSHL	#UAF\$ NAFCONERR	:	1217
	65			01	FB	0022C	CALLS	#1, LIB\$SIGNAL	:	
				0E	11	0022F	BRB	15\$:	
	0658	C3	058C	C3	9E	00231	MOVAB	NETBUF, NAFRAB+36	:	1223
	065C	C3	058C	C3	9E	00238	MOVAB	NETBUF, NAFRAB+40	:	1224
	03	A6	C0	8F	8A	0023F	BICB2	#192, IDENT+3	:	1231
02	A6			01	F0	00244	INSV	#1, #0, #14, IDENT+2	:	1232
		OE		04	B0	0024A	MOVW	#4, IDENT	:	1233
				7E	7C	0024D	CLRQ	-(SP)	:	1234
				7E	7C	0024F	CLRQ	-(SP)	:	
				7E	D4	00251	CLRL	-(SP)	:	
				66	DD	00253	PUSHL	IDENT	:	
	00000000G	00		06	FB	00255	CALLS	#6, SYSS\$IDTOASC	:	
	00018292	8F		50	D1	0025C	CMPL	STATUS, #98962	:	1235
				04	12	00263	BNEQ	16\$:	
			FC	A3	D4	00265	CLRL	RDB_EXISTS	:	1236
				04	04	00268	RET		:	
	FC	A3		01	D0	00269	MOVL	#1, RDB_EXISTS	:	1237
				04	04	0026D	RET		:	1239

; Routine Size: 622 bytes, Routine Base: \$CODE\$ + 00FB

UA
VO

add_uaf - insert new user record

```
: 1149 1240 1 %sbttl 'add_uaf - insert new user record'
: 1150 1241 1 global routine add_uaf : novalue =
: 1151 1242 2 begin
: 1152 1243 2
: 1153 1244 2 !++
: 1154 1245 2
: 1155 1246 2 FUNCTIONAL DESCRIPTION:
: 1156 1247 2
: 1157 1248 2 Routine to add new user to authorization file.
: 1158 1249 2
: 1159 1250 2 INPUTS:
: 1160 1251 2
: 1161 1252 2 none
: 1162 1253 2
: 1163 1254 2 IMPLICIT INPUTS:
: 1164 1255 2
: 1165 1256 2 none
: 1166 1257 2
: 1167 1258 2 OUTPUTS:
: 1168 1259 2
: 1169 1260 2 none
: 1170 1261 2
: 1171 1262 2 IMPLICIT OUTPUTS:
: 1172 1263 2
: 1173 1264 2 none
: 1174 1265 2
: 1175 1266 2 ROUTINE VALUE:
: 1176 1267 2
: 1177 1268 2 none
: 1178 1269 2
: 1179 1270 2 SIDE EFFECTS:
: 1180 1271 2
: 1181 1272 2 A record is added to SYSUAF.DAT
: 1182 1273 2 --
: 1183 1274 2
: 1184 1275 2 map
: 1185 1276 2 tokenptr : ref vector [,byte];
: 1186 1277 2
: 1187 1278 2 local
: 1188 1279 2 user_dsc : vector [2]; ! descriptor for username in record
: 1189 1280 2
: 1190 1281 2
: 1191 1282 2 ! Make sure a username was specified.
: 1192 1283 2
: 1193 1284 2
: 1194 1285 2 if not cli$present (sd_token1)
: 1195 1286 2 or not cli$get_value (sd_token1,tokendsc)
: 1196 1287 2 or .tokenlen eql 0
: 1197 1288 2 then return LIB$SIGNAL(UAF$_NOUSERNAME);
: 1198 1289 2
: 1199 1290 2
: 1200 1291 2 ! ADD must check that the username supplied is not too long.
: 1201 1292 2
: 1202 1293 2 ***if .tokenlen gtr uaf$s_username
: 1203 1294 2 if .tokenlen gtr 12
: 1204 1295 2 then return LIB$SIGNAL(UAF$_NAMETOOBIG);
: 1205 1296 2
```


add_uaf - insert new user record

```
1206 1297 2 |
1207 1298 2 | Make sure a legal username was entered, otherwise the account may not be
1208 1299 2 | accessible via LOGIN or the Input Symbiont.
1209 1300 2 |
1210 1301 2 | incru i to .tokenlen - 1
1211 1302 2 | do
1212 1303 2 |     if ch$fail (ch$find_ch (.symbol_str<0,8>,
1213 1304 2 |         symbol_str + 1,
1214 1305 2 |         .tokenptr [.i]))
1215 1306 2 |         then return LIB$SIGNAL(UAF$_INVUSERNAME);
1216 1307 2 | user_dsc[0] = .tokenlen;
1217 1308 2 | user_dsc[1] = recbuf[uaf$t_username];
1218 1309 2 |
1219 1310 2 |
1220 1311 2 | Move the default record to the current record buffer, so that
1221 1312 2 | fields which are not entered will receive the default
1222 1313 2 | value. Then insert the username just entered.
1223 1314 2 |
1224 1315 2 |
1225 1316 2 | ch$move (.default_size, default_record, recbuf);
1226 1317 2 | ch$copy (.tokenlen, .tokenptr, ' ', uaf$s_username, recbuf[uaf$t_username]);
1227 1318 2 |
1228 1319 2 |
1229 1320 2 | Call routine to fill in all supplied values. Exit if any errors
1230 1321 2 | were found.
1231 1322 2 |
1232 1323 2 |
1233 1324 2 | pwd_flag = true; ! plan to supply a password
1234 1325 2 | uaf$rab[ra$b$w_rs2] = .default_size;
1235 1326 2 | uaf$gl_ctlmsk[uaf$v_add] = true;
1236 1327 2 | if not update_record ()
1237 1328 2 | then
1238 1329 2 |     begin
1239 1330 2 |         uaf$gl_ctlmsk[uaf$v_add] = false;
1240 1331 2 |         return;
1241 1332 2 |     end;
1242 1333 2 |
1243 1334 2 | uaf$gl_ctlmsk[uaf$v_add] = false;
1244 1335 2 |
1245 1336 2 | if .pwd_flag ! if no explicit password
1246 1337 2 | then
1247 1338 2 |     begin
1248 1339 2 |         pwddsc[dsc$w_length] = .defpass<0,8>;
1249 1340 2 |         pwddsc[dsc$a_pointer] = defpass+1;
1250 1341 2 |         $gettim (timadr = time_buf);
1251 1342 2 |         recbuf[uaf$w_salt] = .time_buf<3*8,16>;
1252 1343 2 |         recbuf[uaf$b_encrypt] = encrypt;
1253 1344 2 |         lgi$hpwd (rec_encrypt dsc, pwddsc, .recbuf[uaf$b_encrypt],
1254 1345 2 |             .recbuf[uaf$w_salt], user_dsc);
1255 1346 2 |     end;
1256 1347 2 |
1257 1348 2 |
1258 1349 2 | Now output the new record.
1259 1350 2 |
1260 1351 2 |
1261 1352 2 | if rmsbad ($put (rab = uaf$rab))
1262 1353 2 | then
```


add_uaf - insert new user record

```
: 1263      1354 2      if .rmserr eql rms$ dup
: 1264      1355 2      then return LIB$SIGNAL(UAF$_UAEERR)
: 1265      1356 2      else LIB$SIGNAL(UAF$_ADDERR, 0, .rmserr)
: 1266      1357 2      else
: 1267      1358 2      begin
: 1268      1359 2      |
: 1269      1360 2      | Tell user that addition was successful. Note that file was changed.
: 1270      1361 2      |
: 1271      1362 2      |
: 1272      1363 3      LIB$SIGNAL(UAF$_ADDMSG);
: 1273      1364 4      if (.uaf$gl_ctlmsk[uaf$v_cli]
: 1274      1365 4      and (not .uaf$gl_ctlmsk[uaf$v_clitables]))
: 1275      1366 3      then LIB$SIGNAL(UAF$_CLIWARNMSG);
: 1276      1367 3      security_audit (nsa$k_recid_sysuaf_add);
: 1277      1368 3      modify ftag = true;
: 1278      1369 4      if (cli$present ( sd_add_identifier ) and
: 1279      1370 4      .rdb_exists )
: 1280      1371 3      then
: 1281      1372 4      begin
: 1282      1373 4      |
: 1283      1374 4      | Add the appropriate identifiers.
: 1284      1375 4      | Set the resource attribute if /ATTRIB=RESOURCE was specified
: 1285      1376 4      | and then add the appropriate identifiers to the rights data base
: 1286      1377 4      |
: 1287      1378 4      | if cli$present (sd_attribresource)
: 1288      1379 4      | then attributes = kgb$m_resource
: 1289      1380 4      | else attributes = 0 ;
: 1290      1381 4      | uaf$add_ident_recbuf ( ) ;
: 1291      1382 3      | end ;
: 1292      1383 2      end;
: 1293      1384 1 end;
```

		OFFC 00000				
	5B 00000000G	00	9E 00002			
	5A 00000000'	00	9E 00009			
	59 00000000'	00	9E 00010			
	58 00000000'	00	9E 00017			
	5E	08	C2 0001E			
		59	DD 00021			
00000000G	00	01	FB 00023			
	12	50	E9 0002A			
		58	DD 0002D			
		59	DD 0002F			
00000000G	00	02	FB 00031			
	04	50	E9 00038			
		68	B5 0003B			
		08	12 0003D			
	0C0000000G	8F	DD 0003F 1\$:			
		34	11 00045			
	0C	68	B1 00047 2\$:			
		08	1B 0004A			
	00000000G	8F	DD 0004C			

.EXTRN	SYSS\$GETTIM	
.ENTRY	ADD_UAF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-	1241
	R11	
MOVAB	LIB\$SIGNAL, R11	
MOVAB	PWDDSC, R10	
MOVAB	SD TOKEN1, R9	
MOVAB	TOKENDSC, R8	
SUBL2	#8, SP	
PUSHL	R9	1285
CALLS	#1, CLI\$PRESENT	
BLBC	R0, 1\$	
PUSHL	R8	1286
PUSHL	R9	
CALLS	#2, CLI\$GET_VALUE	
BLBC	R0, 1\$	
TSTW	TOKENLEN	1287
BNEQ	2\$	
PUSHL	#UAF\$_NOUSERNAME	1288
BRB	6\$	
CMPW	TOKENLEN, #12	1294
BLEQU	3\$	
PUSHL	#UAF\$_NAMETOOBIG	1295

add_uaf - insert new user record

E 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 50
(5)

			27	11	00052	BRB	6\$			
		53	68	3C	00054	3\$: MOVZWL	TOKENLEN, R3		1301	
			53	D7	00057	DECL	R3			
			52	D4	00059	CLRL	I			
			23	11	00058	BRB	8\$			
		51	C9	9A	0005D	4\$: MOVZBL	SYMBOL_STR, R1		1303	
		50	A8	D0	00062	MOVL	TOKENPTR, R0		1305	
01ED	C9	51	6240	3A	00066	LOCC	(I)[R0], R1, SYMBOL_STR+1			
			02	12	0006D	BNEQ	5\$			
			51	D4	0006F	CLRL	R1			
			51	D5	00071	5\$: TSTL	R1			
			09	12	00073	BNEQ	7\$			
		00000000G	8F	DD	00075	PUSHL	#UAF\$_INVUSERNAME		1306	
			00AF	31	0007B	6\$: BRW	11\$			
			52	D6	0007E	7\$: INCL	I		1305	
		53	52	D1	00080	8\$: CMPL	I, R3			
			D8	1B	00083	BLEQU	4\$			
		57	68	3C	00085	MOVZWL	TOKENLEN, R7		1307	
		6E	57	D0	00088	MOVL	R7, USER_DSC			
		04	AE	9E	0008B	MOVAB	RECBUF+4, USER_DSC+4		1308	
		56	FA78	CA	3C	00090	MOVZWL	DEFAULT_SIZE, R6	1316	
20	A8	FA7C	56	28	00095	MOVCS	R6, DEFAULT_RECORD, RECBUF			
			50	A8	D0	0009C	MOVL	TOKENPTR, R0	1317	
20	20		60	57	2C	000A0	MOVCS	R7, (R0), #32, #32, RECBUF+4		
			24	A8	000A5					
		0698	C8	01	D0	000A7	MOVL	#1, PWD_FLAG	1324	
		062A	C8	56	B0	000AC	MOVW	R6, UAFRAB+34	1325	
		A4	A8	02	88	000B1	BISB2	#2, UAF\$GL_CTLMSK	1326	
		00000000G	00	00	FB	000B5	CALLS	#0, UPDATE_RECORD	1327	
			05	50	E8	000BC	BLBS	R0, 9\$		
		A4	A8	02	8A	000BF	BICB2	#2, UAF\$GL_CTLMSK	1330	
				04	000C3	RET			1329	
		A4	A8	02	8A	000C4	9\$: BICB2	#2, UAF\$GL_CTLMSK	1334	
		3B	0698	C8	E9	000C8	BLBC	PWD_FLAG, TOS	1336	
		6A	0120	C9	9B	000CD	MOVZBW	DEFPASS, PWDDSC	1339	
		04	AA	0121	C9	9E	000D2	MOVAB	DEFPASS+1, PWDDSC+4	1340
			0690	C8	9F	000D8	PUSHAB	TIME_BUF	1341	
		00000000G	00	01	FB	000DC	CALLS	#1, SYSSGETTIM		
		0186	C8	0693	C8	B0	000E3	MOVW	TIME_BUF+3, RECBUF+358	1342
		0188	C8	02	90	000EA	MOVB	#2, RECBUF+360	1343	
				5E	DD	000EF	PUSHL	SP	1344	
		7E	0186	C8	3C	000F1	MOVZWL	RECBUF+358, -(SP)	1345	
		7E	0188	C8	9A	000F6	MOVZBL	RECBUF+360, -(SP)	1344	
				5A	DD	000FB	PUSHL	R10		
			01E4	C9	9F	000FD	PUSHAB	REC_ENCRYPT_DSC		
		00000000G	00	05	FB	00101	CALLS	#5, LGISHPWD		
				C8	9F	00108	10\$: PUSHAB	UAFRAB	1352	
		00000000G	00	01	FB	0010C	CALLS	#1, SYSSPUT		
		18	A8	50	D0	00113	MOVL	R0, RMSERR		
			25	50	E8	00117	BLBS	R0, 13\$		
			50	A8	D0	0011A	MOVL	RMSERR, R0	1354	
		000184EC	8F	50	D1	0011E	CMPL	R0, #99564		
				0A	12	00125	BNEQ	12\$		
			00000000G	8F	DD	00127	PUSHL	#UAF\$_UAEERR	1355	
		6B	01	FB	0012D	11\$: CALLS	#1, LIB\$SIGNAL			
				04	00130	RET				
			50	DD	00131	12\$: PUSHL	R0		1356	

add_uaf - insert new user record

F 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 51
(5)

			7E	D4	00133	CLRL	-(SP)	:	
		00000000G	8F	DD	00135	PUSHL	#UAF\$_ADDERR	:	
		6B	03	FB	0013B	CALLS	#3, LTB\$SIGNAL	:	
				04	0013E	RET		:	1354
		00000000G	8F	DD	0013F	PUSHL	#UAF\$_ADDMSG	:	1363
		6B	01	FB	00145	CALLS	#1, LTB\$SIGNAL	:	
0E	A4	A8	03	E1	00148	BBC	#3, UAF\$GL_CTLMSK, 14\$:	1364
09	A4	A8	04	E0	0014D	BBS	#4, UAF\$GL_CTLMSK, 14\$:	1365
		00000000G	8F	DD	00152	PUSHL	#UAF\$_CLIWARNMSG	:	1366
		6B	01	FB	00158	CALLS	#1, LTB\$SIGNAL	:	
		00010002	8F	DD	0015B	PUSHL	#65538	:	1367
			01	FB	00161	CALLS	#1, SECURITY AUDIT	:	
00000000V	00		01	D0	00168	MOVL	#1, MODIFY FLAG	:	1368
F624	CA			A9	9F	PUSHAB	SD_ADD_IDENTIFIER	:	1369
		44	01	FB	00170	CALLS	#1, CLISPRESENT	:	
00000000G	00		50	E9	00177	BLBC	R0, 17\$:	
	28		A8	E9	0017A	BLBC	RDB EXISTS, 17\$:	1370
	24	14	CA	9F	0017E	PUSHAB	SD_ATTRIBUTESOURCE	:	1378
		F5D8	01	FB	00182	CALLS	#1, CLISPRESENT	:	
00000000G	00		50	E9	00189	BLBC	R0, 15\$:	
	09		01	D0	0018C	MOVL	#1, ATTRIBUTES	:	1379
00000000G	00		06	11	00193	BRB	16\$:	
		00000000G	00	D4	00195	CLRL	ATTRIBUTES	:	1380
			00	FB	0019B	CALLS	#0, UAF\$ADD_IDENT_RECBUF	:	1381
			04	001A2	17\$:	RET		:	1384

; Routine Size: 419 bytes, Routine Base: \$CODE\$ + 0369

add_proxy - insert new proxy record

```
1295 1385 1 %sbttl 'add_proxy - insert new proxy record'
1296 1386 1 global routine add_proxy : novalue =
1297 1387 2 begin
1298 1388 2
1299 1389 2 ++
1300 1390 2
1301 1391 2 FUNCTIONAL DESCRIPTION:
1302 1392 2
1303 1393 2 This routine adds an entry to the NETUAF.DAT Proxy Login File
1304 1394 2
1305 1395 2 INPUTS:
1306 1396 2
1307 1397 2 none
1308 1398 2
1309 1399 2 OUTPUTS:
1310 1400 2
1311 1401 2 none
1312 1402 2
1313 1403 2 IMPLICIT INPUTS:
1314 1404 2
1315 1405 2 TOKENLEN, TOKENPTR
1316 1406 2
1317 1407 2 IMPLICIT OUTPUTS:
1318 1408 2
1319 1409 2 none
1320 1410 2
1321 1411 2 ROUTINE VALUE:
1322 1412 2
1323 1413 2 none
1324 1414 2
1325 1415 2 SIDE EFFECTS:
1326 1416 2
1327 1417 2 A record is added to NETUAF.DAT
1328 1418 2
1329 1419 2 --
1330 1420 2
1331 1421 2 local
1332 1422 2 node_len,
1333 1423 2 node_ptr,
1334 1424 2 remuser_len,
1335 1425 2 remuser_ptr,
1336 1426 2 locuser_len,
1337 1427 2 locuser_ptr;
1338 1428 2
1339 1429 2
1340 1430 2 Can't do anything if there is no NETUAF.DAT...
1341 1431 2
1342 1432 2 if not .netuaf exists
1343 1433 2 then return LIB$SIGNAL(UAF$_NAFDNE);
1344 1434 2
1345 1435 2
1346 1436 2 Clear NETUAF.DAT buffer
1347 1437 2
1348 1438 2 ch$fill (' ', naf$c_length, netbuf);
1349 1439 2
1350 1440 2
1351 1441 2 Retrieve token from command line
```


add_proxy - insert new proxy record

```
1352 1442 2 !
1353 1443 2 cli$get_value (sd_token1, tokendsc);
1354 1444 2
1355 1445 2
1356 1446 2 Make sure entry is in proper node::remoteuser format
1357 1447 2
1358 1448 2 if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
1359 1449 2 then return;
1360 1450 2
1361 1451 2 Fill in NETBUF with new remotename field
1362 1452 2
1363 1453 2 ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
1364 1454 2 ch$copy (.remuser_len, .remuser_ptr, ' ', naf$s_remuser, netbuf[naf$t_remuser]);
1365 1455 2
1366 1456 2
1367 1457 2 Now get second token, the local user name
1368 1458 2
1369 1459 2 cli$get_value (sd_token2, tokendsc);
1370 1460 2
1371 1461 2 locuser_len = .tokenlen;
1372 1462 2 locuser_ptr = .tokenptr;
1373 1463 2 ***if .locuser_len gtru naf$s_localuser
1374 1464 2 if .locuser_len gtru 12
1375 1465 2 then return LIB$SIGNAL(UAF$_NAMETOOBIG);
1376 1466 2
1377 1467 2
1378 1468 2 If local name is *, then use same name as remote user
1379 1469 2
1380 1470 2 if .tokenlen eql 1 and .(.tokenptr)<0,8> eql '*'
1381 1471 2 then
1382 1472 2 begin
1383 1473 2 locuser_len = .remuser_len;
1384 1474 2 ch$move (naf$s_remuser, netbuf[naf$t_remuser], netbuf[naf$t_localuser]);
1385 1475 2 end
1386 1476 2
1387 1477 2 Otherwise just copy into localuser field in NETBUF
1388 1478 2
1389 1479 2 else
1390 1480 2 ch$copy (.locuser_len, .locuser_ptr, ' ',
1391 1481 2 naf$s_localuser, netbuf[naf$t_localuser]);
1392 1482 2
1393 1483 2
1394 1484 2 Make sure that the local user does indeed exist in SYSUAF.DAT
1395 1485 2 (unless local user is *)
1396 1486 2
1397 1487 2 if not locate_user (.locuser_len, netbuf[naf$t_localuser], 0)
1398 1488 2 and not (.locuser_len eql 1 and .(netbuf[naf$t_localuser])<0,8> eql '*')
1399 1489 2 then return LIB$SIGNAL(UAF$_BADUSR, 2, .locuser_len, netbuf[naf$t_localuser]);
1400 1490 2
1401 1491 2 nafrab[rab$w_rsz] = naf$c_length;
1402 1492 2
1403 1493 2
1404 1494 2 Add NETUAF.DAT record
1405 1495 2
1406 1496 2 if rmsbad ($put (rab = nafrab))
1407 1497 2 then
1408 1498 2 begin
```


add_proxy - insert new proxy record

I 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 Page 54
(6)

```
1409      if .rmserr eql rms$_dup
1410      then
1411          return LIB$SIGNAL(UAF$_NAFUAEERR)
1412      else
1413          LIB$SIGNAL(UAF$_NAFADDERR, 0, .rmserr)
1414      end
1415  else
1416      begin
1417          LIB$SIGNAL(UAF$_NAFADDMSG);
1418          security_audit (nsa$_recid_netuaf_add);
1419      end;
1420
1421  netuaf_modified = true;
1422  end;
```

					07FC 00000				.ENTRY	ADD PROXY, Save R2,R3,R4,R5,R6,R7,R8,R9,R10	1386
			5A	00000000G	00	9E	00002		MOVAB	CLISGET VALUE, R10	
			59	00000000G	00	9E	00009		MOVAB	LIB\$SIGNAL, R9	
			58	00000000'	00	9E	00010		MOVAB	NETBUF+64, R8	
			5E		10	C2	00017		SUBL2	#16, SP	
			08	FA2C	C8	E8	0001A		BLBS	NETUAF EXISTS, 1\$	1432
				00000000G	8F	DD	0001F		PUSHL	#UAF\$_NAFDNE	1433
					5F	11	00025		BRB	3\$	
0064	8F	20	6E		00	2C	00027	1\$:	MOVCS	#0, (SP), #32, #100, NETBUF	1438
				CO	A8		0002E				
				FA1C	C8	9F	00030		PUSHAB	TOKENDSC	1443
				00000000'	00	9F	00034		PUSHAB	SD_TOKEN1	
			6A		02	FB	0003A		CALLS	#2, CLISGET_VALUE	
					5E	DD	0003D		PUSHL	SP	1448
				08	AE	9F	0003F		PUSHAB	REMUSER_PTR	
				10	AE	9F	00042		PUSHAB	NODE_LEN	
				18	AE	9F	00045		PUSHAB	NODE_PTR	
				00000000V	00	04	FB	00048	CALLS	#4, REMOTE_PARSE	
					01	50	E8	0004F	BLBS	R0, 2\$	
						04	00052		RET		
20	20	0C	BE	08	AE	2C	00053	2\$:	MOVCS	NODE_LEN, @NODE_PTR, #32, #32, NETBUF	1453
				CO	A8		0005A				
20	20	04	BE	6E	2C	0005C			MOVCS	REMUSER_LEN, @REMUSER_PTR, #32, #32, -	1454
				E0	A8		00062			NETBUF+32	
				FA1C	C8	9F	00064		PUSHAB	TOKENDSC	1459
				00000000'	00	9F	00068		PUSHAB	SD_TOKEN2	
			6A		02	FB	0006E		CALLS	#2, CLISGET_VALUE	
			56	FA1C	C9	3C	00071		MOVZWL	TOKENLEN, LOCUSER_LEN	1461
			57	FA20	C8	D0	00076		MOVL	TOKENPTR, LOCUSER_PTR	1462
			0C		56	D1	0007B		CMPL	LOCUSER_LEN, #12	1464
					08	1B	0007E		BLEQU	4\$	
				00000000G	8F	DD	00080		PUSHL	#UAF\$_NAMETOOBIG	1465
					77	11	00086	3\$:	BRB	9\$	
			01	FA1C	C8	B1	00088	4\$:	CMPW	TOKENLEN, #1	1470
					14	12	0008D		BNEQ	5\$	
			50	FA20	C8	D0	0008F		MOVL	TOKENPTR, R0	
			2A		60	91	00094		CMPB	(R0), #42	
					0A	12	00097		BNEQ	5\$	

add_proxy - insert new proxy record

J 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 55
(6)

20	68	E0	56 A8	6E 20	D0 28	00099 0009C	MOVL MOV C3	REMUSER LEN, LOCUSER LEN #32, NETBUF+32, NETBUF+64	: 1473 : 1474
	20		67	06 56	11 2C	000A1 000A3	BRB MOV C5	6\$ LOCUSER_LEN, (LOCUSER_PTR), #32, #32, - NETBUF+64	: 1470 : 1481
				68 7E		000A8 000A9			: 1487
		0140		8F 03	BB FB	000AB 000AF	CLRL PUSHR	-(SP) #^M<R6,R8>	: 1488
			00000000V	50 56	E8 D1	000B6 000B9	CALLS BLBS	#3, LOCATE_USER R0, 8\$: 1488
				01 05		000B6 000BC	CPL BNEQ	LOCUSER_LEN, #1 7\$: 1489
				2A 68	91 13	000BE 000C1	CMPB BEQL	NETBUF+64, #42 8\$: 1489
					8F 02	000C3 000C7	PUSHR PUSHL	#^M<R6,R8> #2	: 1489
					8F 04	000C9 000CF	PUSHL CALLS	#UAF\$ BADUSR #4, LIB\$SIGNAL	: 1491
			008A	64 68	8F A8	000D3 000D9	RET MOVZBW		: 1496
					01 50	000DC 000E3	PUSHAB CALLS	#100, NAFRAB+34 NAFRAB	: 1496
			00000000G		01 50	000DC 000E8	CALLS MOVL	#1, SY\$SPUT R0, RMSERR	: 1499
			FA34		50 50	000E8 000EB	BLBS MOVL	R0, 11\$ RMSERR, R0	: 1499
					50 0A	000EB 000F7	CMPL BNEQ	R0, #99564 10\$: 1501
			000184EC		8F 01	000F0 000F9	PUSHL CALLS	#UAF\$ NAFUAEERR #1, LIB\$SIGNAL	: 1501
					04 50	00102 00103	RET PUSHL		: 1503
					7E 8F	00105 00107	CLRL PUSHL	-(SP) #UAF\$ NAFADDERR	: 1498
					03 16	0010D 00110	CALLS BRB	#3, LIB\$SIGNAL 12\$: 1507
					8F 01	00112 00118	PUSHL CALLS	#UAF\$ NAFADDMSG #1, LIB\$SIGNAL	: 1508
					01 01	0011B 00121	PUSHL CALLS	#65539 #1, SECURITY_AUDIT	: 1511
			00000000V		01 04	00121 0012F	MOVL RET	#1, NETUAF_MODIFIED	: 1512
			00000000'						

; Routine Size: 304 bytes, Routine Base: \$CODE\$ + 050C

remote_parse - parses 'node::remoteuser'

```
1424 1513 1 %sbttl 'remote_parse - parses 'node::remoteuser''
1425 1514 1 routine remote_parse (node_ptr, node_len, remuser_ptr, remuser_len) =
1426 1515 2 begin
1427 1516 2
1428 1517 2 !++
1429 1518 2
1430 1519 2 FUNCTIONAL DESCRIPTION:
1431 1520 2
1432 1521 2 This routine parses a remote user specification in the form
1433 1522 2 node::remuser, and returns the two components by lengths
1434 1523 2 and pointers to the strings
1435 1524 2
1436 1525 2 INPUTS:
1437 1526 2
1438 1527 2 node_ptr - returned as pointer to nodename
1439 1528 2 node_len - length of nodename
1440 1529 2 remuser_ptr - returned as pointer to remote user name
1441 1530 2 remuser_len - length of remote user name
1442 1531 2
1443 1532 2 IMPLICIT INPUTS:
1444 1533 2
1445 1534 2 TOKENLEN and TOKENPTR - the remote user specification is assumed
1446 1535 2 to have just been fetched from the command line
1447 1536 2
1448 1537 2 OUTPUTS:
1449 1538 2
1450 1539 2 none
1451 1540 2
1452 1541 2 ROUTINE VALUE:
1453 1542 2
1454 1543 2 TRUE if parsed successfully
1455 1544 2 FALSE if error encountered in parsing
1456 1545 2
1457 1546 2 !--
1458 1547 2
1459 1548 2 map
1460 1549 2 dbl_colon : vector;
1461 1550 2
1462 1551 2 local
1463 1552 2 dbl_colon_ptr;
1464 1553 2
1465 1554 2
1466 1555 2 Better be able to find a double colon in the remotename...
1467 1556 2
1468 1557 2 dbl_colon_ptr = ch$find_sub (.tokenlen, .tokenptr, 2, .dbl_colon [1]);
1469 1558 2
1470 1559 2 if .dbl_colon_ptr eql 0 ! no double colon found
1471 1560 2 or .dbl_colon_ptr eql .tokenptr ! no node found
1472 1561 2 or .dbl_colon_ptr eql (.tokenptr + .tokenlen - 2) ! no remote user found
1473 1562 2 then return LIB$SIGNAL(UAF$_BADNODFORM);
1474 1563 2
1475 1564 2
1476 1565 2 Determine node length and pointer
1477 1566 2
1478 1567 2 .node_len = .dbl_colon_ptr - .tokenptr;
1479 1568 2 .node_ptr = .tokenptr;
1480 1569 2
```



```
remote_parse - parses 'node::remoteuser'

: 1481 1570 2 |
: 1482 1571 2 | Make sure node name isn't too long
: 1483 1572 2 |
: 1484 1573 2 | ***if . (.node_len) gtru naf$s_node
: 1485 1574 2 | if . (.node_len) gtru 6
: 1486 1575 2 | then return LIB$SIGNAL(UAF$_NODTOOBIG);
: 1487 1576 2 |
: 1488 1577 2 |
: 1489 1578 2 | Determine remote username length and pointer
: 1490 1579 2 |
: 1491 1580 2 | .remuser_len = .tokenlen - .(.node_len) - 2;
: 1492 1581 2 | .remuser_ptr = .dbl_colon_ptr + 2;
: 1493 1582 2 |
: 1494 1583 2 |
: 1495 1584 2 | And make sure name isn't too long
: 1496 1585 2 |
: 1497 1586 2 | ***if . (.remuser_len) gtru naf$s_remuser
: 1498 1587 2 | if . (.remuser_len) gtru 12
: 1499 1588 2 | then return LIB$SIGNAL(UAF$_NAMETOOBIG);
: 1500 1589 2 |
: 1501 1590 2 | return true;
: 1502 1591 1 | end;
```

				007C 00000 REMOTE_PARSE:			
				.WORD	Save R2,R3,R4,R5,R6	: 1514	
		56	00000000'	00 9E 00002	MOVAB	TOKENLEN, R6	
		55		66 3C 00009	MOVZWL	TOKENLEN, R5	: 1557
		54	04	A6 D0 0000C	MOVL	TOKENPTR, R4	
		50	00000000'	00 D0 00010	MOVL	DBL_COLON+4, R0	
		60		02 39 00017	MATCHC	#2, (R0), R5, (R4)	
				03 13 0001C	BEQL	1\$	
		53		02 D0 0001E	MOVL	#2, R3	
		53		02 C2 00021 1\$:	SUBL2	#2, R3	
				0F 13 00024	BEQL	2\$: 1559
		54		53 D1 00026	CMPL	DBL_COLON_PTR, R4	: 1560
				0A 13 00029	BEQL	2\$	
		50	FE A544	9E 0002B	MOVAB	-2(R5)[R4], R0	: 1561
		50		53 D1 00030	CMPL	DBL_COLON_PTR, R0	
				08 12 00033	BNEQ	3\$	
			00000000G	8F DD 00035 2\$:	PUSHL	#UAF\$_BADNODFORM	: 1562
				38 11 0003B	BRB	5\$	
		50	04	A6 D0 0003D 3\$:	MOVL	TOKENPTR, R0	: 1567
	08	BC		50 C3 00041	SUBL3	R0, DBL_COLON_PTR, @NODE_LEN	
		04	BC	50 D0 00046	MOVL	R0, @NODE_PTR	: 1568
		06	08	BC D1 0004A	CMPL	@NODE_LEN, #6	: 1574
				08 1B 0004E	BLEQU	4\$	
			00000000G	8F DD 00050	PUSHL	#UAF\$_NODTOOBIG	: 1575
				1D 11 00056	BRB	5\$	
		50		66 3C 00058 4\$:	MOVZWL	TOKENLEN, R0	: 1580
		50	08	BC C2 0005B	SUBL2	@NODE_LEN, R0	
	10	BC	FE	A0 9E 0005F	MOVAB	-2(R0), @REMUSER_LEN	
	0C	BC	02	A3 9E 00064	MOVAB	2(R3), @REMUSER_PTR	: 1581
		0C	10	BC D1 00069	CMPL	@REMUSER_LEN, #T2	: 1587

UAFMAIN
V04-000

remote_parse - parses "node::remoteuser"

M 14
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 58
(7)

		0E	1B	0006D	BLEQU	6\$:	
		8F	DD	0006F	PUSHL	#UAF\$_NAMETOOBIG	:	1588
00000000G	00	01	FB	00075	CALLS	#1, LIB\$SIGNAL	:	
			04	0007C	RET		:	
	50	01	D0	0007D	MOVL	#1, R0	:	1590
			04	00080	RET		:	1591

; Routine Size: 129 bytes, Routine Base: \$CODE\$ + 063C

UA
VO

copy_uaf - copy user record

```
1504 1592 1 %sbttl 'copy_uaf - copy user record'
1505 1593 1 global routine copy_uaf =
1506 1594 2 begin
1507 1595 2
1508 1596 2 ++
1509 1597 2
1510 1598 2 FUNCTIONAL DESCRIPTION:
1511 1599 2
1512 1600 2 Routine to copy a user authorization record, giving the
1513 1601 2 new authorization record a different name.
1514 1602 2
1515 1603 2 INPUTS:
1516 1604 2
1517 1605 2 none
1518 1606 2
1519 1607 2 IMPLICIT INPUTS:
1520 1608 2
1521 1609 2 none
1522 1610 2
1523 1611 2 OUTPUTS:
1524 1612 2
1525 1613 2 none
1526 1614 2
1527 1615 2 ROUTINE VALUE:
1528 1616 2
1529 1617 2 false if the copy fails;
1530 1618 2 true if the copy succeeds.
1531 1619 2
1532 1620 2 SIDE EFFECTS:
1533 1621 2
1534 1622 2 A user record is added.
1535 1623 2
1536 1624 2
1537 1625 2 --
1538 1626 2
1539 1627 2 local
1540 1628 2 status,
1541 1629 2 flag,
1542 1630 2 lock_rec,
1543 1631 2 def_sys,
1544 1632 2 old_user_buffer : vector [uaf$s_username, byte];
1545 1633 2
1546 1634 2 map
1547 1635 2 tokenptr : ref vector [,byte];
1548 1636 2
1549 1637 2 uaf$gl_ctlmsk[uaf$v_copy] = not .uaf$gl_ctlmsk[uaf$v_rename];
1550 1638 2
1551 1639 2 If this is a COPY directly from the UAF> prompt, the authorization
1552 1640 2 record need not be locked, and the default and system records may be
1553 1641 2 copied. HOWEVER, if this COPY is part of a RENAME operation, the record
1554 1642 2 must be locked, and the default and system records may not be renamed.
1555 1643 2 (The RENAME operation is similar to the COPY operation except that
1556 1644 2 the original record is REMOVE'd. COPY leaves both records.)
1557 1645 2
1558 1646 2 if not .uaf$gl_ctlmsk[uaf$v_rename]
1559 1647 2 then
1560 1648 2 begin
```


copy_uaf - copy user record

```
: 1561      1649 3      lock_rec = false;
: 1562      1650 3      def_sys = true;
: 1563      1651 3      flag = false;
: 1564      1652 3      end
: 1565      1653 2      else
: 1566      1654 3      begin
: 1567      1655 3      lock_rec = true;
: 1568      1656 3      def_sys = false;
: 1569      1657 3      flag = true;
: 1570      1658 3      end;
: 1571      1659 2
: 1572      1660 2
: 1573      1661 2      Place record to be copied into RECBUF
: 1574      1662 2      (If the third argument is true, the call to GET USER RECORD
: 1575      1663 2      is part of a RENAME operation, and the first token should be saved.
: 1576      1664 2      If the third argument is false, the call is part of a COPY
: 1577      1665 2      operation, and the first token need not be saved.)
: 1578      1666 2
: 1579      1667 2
: 1580      1668 2      if get_user_record (.lock_rec, .def_sys, .flag)
: 1581      1669 2      then
: 1582      1670 3      begin
: 1583      1671 3      if not cli$present (sd_token2)
: 1584      1672 3      or not cli$get_value (sd_token2, tokendsc)
: 1585      1673 3      or .tokenlen eql 0
: 1586      1674 3      then return LIB$SIGNAL(UAF$_NOUSERNAME);
: 1587      1675 3
: 1588      1676 3
: 1589      1677 3      Make sure that the new username isn't too long
: 1590      1678 3
: 1591      1679 3      *** if .tokenlen gtru uaf$s_username
: 1592      1680 3      if .tokenlen gtru 12
: 1593      1681 3      then LIB$SIGNAL(UAF$_NAMETOOBIG);
: 1594      1682 3
: 1595      1683 3
: 1596      1684 3      Make sure that the new username is legal
: 1597      1685 3
: 1598      1686 3      incru i to .tokenlen - 1
: 1599      1687 3      do
: 1600      1688 3      if ch$fail (ch$find_ch (.symbol_str<0,8>,
: 1601      1689 3      symbol_str + 1,
: 1602      1690 3      tokenptr [.i]))
: 1603      1691 3      then return LIB$SIGNAL(UAF$_INVUSERNAME);
: 1604      1692 3
: 1605      1693 3
: 1606      1694 3      If this is a rename save the new user name
: 1607      1695 3
: 1608      1696 3      if .uaf$gl_ctlmsk[uaf$v_rename]
: 1609      1697 3      then
: 1610      1698 4      begin
: 1611      1699 4      ch$move (.tokenlen, .tokenptr, newusername);
: 1612      1700 4      newuserlen = .tokenlen;
: 1613      1701 4      end ;
: 1614      1702 3
: 1615      1703 3
: 1616      1704 3      Place the new username in RECBUF, but save the old username first
: 1617      1705 3
```


copy_uaf - copy user record

```

: 1618      1706 3      ch$move (uaf$$username, recbuf[uaf$t_username], old_user_buffer);
: 1619      1707 3      ch$copy (.tokenlen, .tokenptr,
: 1620      1708 3      uaf$$username, recbuf[uaf$t_username]);
: 1621      1709 3      pwd_flag = true;
: 1622      1710 3
: 1623      1711 3      status = update_record ();
: 1624      1712 3      if not .status
: 1625      1713 3      then return false;
: 1626      1714 3
: 1627      1715 3      :
: 1628      1716 3      : If this is a copy operation then zero fill the last login info
: 1629      1717 3      :
: 1630      1718 3      if not .uaf$gl_ctlmsk[uaf$v_rename]
: 1631      1719 3      then
: 1632      1720 4      begin
: 1633      1721 4      recbuf[uaf$w_logfails] = 0 ;
: 1634      1722 4      ch$fill ( 0, uaf$$lastlogin_i, recbuf[uaf$q_lastlogin_i] ) ;
: 1635      1723 4      ch$fill ( 0, uaf$$lastlogin_n, recbuf[uaf$q_lastlogin_n] ) ;
: 1636      1724 3      end ;
: 1637      1725 3
: 1638      1726 3      :
: 1639      1727 3      : Now output the new record
: 1640      1728 3      :
: 1641      1729 4      if rmsbad ($put (rab = uaf$rab))
: 1642      1730 3      then
: 1643      1731 4      begin
: 1644      1732 4      if .rmserr eql rms$_dup
: 1645      1733 4      then
: 1646      1734 4      return LIB$SIGNAL(UAF$_UAEERR)      ! username already exists
: 1647      1735 4      else
: 1648      1736 5      begin
: 1649      1737 5      LIB$SIGNAL(UAF$_ADDERR, 0, .rmserr);
: 1650      1738 5      return false;
: 1651      1739 5      end
: 1652      1740 4      end
: 1653      1741 3      else
: 1654      1742 3      :
: 1655      1743 3      : The copy was successful -- tell the user and set modify flag
: 1656      1744 3      :
: 1657      1745 4      begin
: 1658      1746 4      modify flag = true;
: 1659      1747 5      security_audit ((if not .uaf$gl_ctlmsk[uaf$v_rename]
: 1660      1748 5      then nsa$k_recid_sysuaf_cop
: 1661      1749 4      else nsa$k_recid_sysuaf_ren),
: 1662      1750 4      old_user_buffer);
: 1663      1751 4      if not .uaf$gl_ctlmsk[uaf$v_rename]
: 1664      1752 4      then
: 1665      1753 5      begin
: 1666      1754 5      LIB$SIGNAL(UAF$_COPMSG);
: 1667      1755 6      if (.uaf$gl_ctlmsk[uaf$v_cli]
: 1668      1756 6      and not .uaf$gl_ctlmsk[uaf$v_clitables])
: 1669      1757 5      and .uaf$gl_ctlmsk[uaf$v_clitab_pres]
: 1670      1758 5      then LIB$SIGNAL(UAF$_CLIWARNMSG);
: 1671      1759 5      :
: 1672      1760 5      : Since passwords are folded in with the username, passwords for
: 1673      1761 5      : COPIed records will no longer work--warn the user
: 1674      1762 5      :
```


copy_uaf - copy user record

```

: 1675      1763 5      if .pwd_flag
: 1676      1764 5      then LIB$SIGNAL(UAF$DEFPWD);
: 1677      1765 5      uaf$gl_ctlmsk[uaf$u_copy] = false;
: 1678      1766 6      if (cli$present ( sd_add_identifier ) and
: 1679      1767 6          .rdb_exists )
: 1680      1768 5      then
: 1681      1769 6          begin
: 1682      1770 6              Set the resource attribute if /ATTRIB=RESOURCE was specified
: 1683      1771 6              and then add the appropriate identifiers to the rights data base
: 1684      1772 6              if cli$present (sd_attribresource)
: 1685      1773 6                  then attributes = kgb$m_resource
: 1686      1774 6                  else attributes = 0 ;
: 1687      1775 6              uaf$add_ident_recbuf ( ) ;
: 1688      1776 6              end;
: 1689      1777 6          end;
: 1690      1778 5      end;
: 1691      1779 4      end;
: 1692      1780 3      end ;
: 1693      1781 3      end
: 1694      1782 3      :
: 1695      1783 3      : The attempt to GET_USER_RECORD failed...
: 1696      1784 3      :
: 1697      1785 3      :
: 1698      1786 2      else return false;
: 1699      1787 2      :
: 1700      1788 2      :
: 1701      1789 2      : If we get here, everything succeeded -- return true
: 1702      1790 2      :
: 1703      1791 2      return true;
: 1704      1792 2      :
: 1705      1793 1      end;
```

			OFFC 00000	.ENTRY	COPY_UAF, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-; R11	1593
		5B 00000000G	00 9E 00002	MOVAB	CLIP\$PRESENT, R11	
		5A 00000000'	00 9E 00009	MOVAB	NEWUSERNAME, R10	
		59 00000000'	00 9E 00010	MOVAB	SD TOKEN2, R9	
		58 00000000G	00 9E 00017	MOVAB	LIB\$SIGNAL, R8	
		57 00000000'	00 9E 0001E	MOVAB	UAF\$GL_CTLMSK, R7	
		5E	20 C2 00025	SUBL2	#32, SP	
50	67	01	00 EF 00028	EXTZV	#0, #1, UAF\$GL_CTLMSK, R0	1637
		50	50 92 0002D	MCOMB	R0, R0	
67	01	02	50 F0 0003D	INSV	R0, #2, #1, UAF\$GL_CTLMSK	
		07	67 E8 00035	BLBS	UAF\$GL_CTLMSK, 1\$	1646
		51	01 7D 00038	MOVQ	#1, DEF_SYS	1650
			50 D4 0003B	CLRL	FLAG	1651
			06 11 0003D	BRB	2\$	1646
		52	01 D0 0003F 1\$:	MOVL	#1, LOCK_REC	1655
		50	01 7D 00042	MOVQ	#1, FLAG	1657
			50 DD 00045 2\$:	PUSHL	FLAG	1668
			51 DD 00047	PUSHL	DEF_SYS	
			52 DD 00049	PUSHL	LOCK_REC	
		00000000V 00	03 FB 0004B	CALLS	#3, GET_USER_RECORD	

		03		50	E8	00052	BLBS	R0	3\$		
				0169	31	00055	BRW	25\$			
		68		59	DD	00058	3\$: PUSHL	R9			1671
		14		01	FB	0005A	CALLS	#1, CLISPRESNT			
				50	E9	0005D	BLBC	R0, 4\$			
			5C	A7	9F	00060	PUSHAB	TOKENDSC			1672
				59	DD	00063	PUSHL	R9			
	00000000G	00		02	FB	00065	CALLS	#2, CLISGET_VALUE			
		05		50	E9	0006C	BLBC	R0, 4\$			
			5C	A7	B5	0006F	TSTW	TOKENLEN			1673
				08	12	00072	BNEQ	5\$			
			00000000G	8F	DD	00074	4\$: PUSHL	#UAF\$_NOUSERNAME			1674
				37	11	0007A	BRB	9\$			
		0C		A7	B1	0007C	5\$: CMPW	TOKENLEN, #12			1680
			5C	09	1B	00080	BLEQU	6\$			
			00000000G	8F	DD	00082	PUSHL	#UAF\$_NAMETOOBIG			1681
		68		01	FB	00088	CALLS	#1, LIBSSIGNAL			
		53		A7	3C	0008B	6\$: MOVZWL	TOKENLEN, R3			1686
				53	D7	0008F	DECL	R3			
				52	D4	00091	CLRL	I			
				22	11	00093	BRB	11\$			
		51		C9	9A	00095	7\$: MOVZBL	SYMBOL_STR, R1			1688
		50		A7	D0	0009A	MOVL	TOKENPTR, R0			1690
		51		6240	3A	0009E	LOCC	(I)[R0], R1, SYMBOL_STR+1			
				02	12	000A5	BNEQ	8\$			
				51	D4	000A7	CLRL	R1			
				51	D5	000A9	8\$: TSTL	R1			
				08	12	000AB	BNEQ	10\$			
			00000000G	8F	DD	000AD	PUSHL	#UAF\$_INVUSERNAME			1691
				78	11	000B3	9\$: BRB	14\$			
				52	D6	000B5	10\$: INCL	I			1690
		53		52	D1	000B7	11\$: CMPL	I, R3			
				D9	1B	000BA	BLEQU	7\$			
		10		67	E9	000BC	BLBC	UAF\$GL_CTLMSK, 12\$			1696
		56		A7	3C	000BF	MOVZWL	TOKENLEN, R6			1699
		50		A7	D0	000C3	MOVL	TOKENPTR, R0			
	6A	60		56	28	000C7	MOVCS	R6, (R0), NEWUSERNAME			
		AA		56	D0	000CB	MOVL	R6, NEWUSERLEN			1700
	6E	0080		20	28	000CF	12\$: MOVCS	#32, RECBUF+4, OLD_USER_BUFFER			1706
		50		A7	D0	000D5	MOVL	TOKENPTR, R0			1707
	20	60		A7	2C	000D9	MOVCS	TOKENLEN, (R0), #32, #32, RECBUF+4			1708
				C7		000DF					
		06F4		01	D0	000E2	MOVL	#1, PWD_FLAG			1709
		00000000G		00	FB	000E7	CALLS	#0, UPDATE_RECORD			1711
				4D	E9	000EE	BLBC	STATUS, 16\$			1712
		14		67	E8	000F1	BLBS	UAF\$GL_CTLMSK, 13\$			1718
				C7	B4	000F4	CLRW	RECBUF+356			1721
08	00	6E		00	2C	000F8	MOVCS	#0, (SP), #0, #8, RECBUF+396			1722
				C7		000FD					
08	00	6E		00	2C	00100	MOVCS	#0, (SP), #0, #8, RECBUF+404			1723
				C7		00105					
				C7	9F	00108	13\$: PUSHAB	UAFRAB			1729
		00000000G		01	FB	0010C	CALLS	#1, SYSSPUT			
		74		50	D0	00113	MOVL	R0, RMSERR			
				50	E8	00117	BLBS	R0, 17\$			
				A7	D0	0011A	MOVL	RMSERR, R0			1732
	000184EC	8F		50	D1	0011E	CMPL	R0, #99564			

		0A	12	00125	BNEQ	15\$		
		8F	DD	00127	PUSHL	#UAF\$ UAEERR		1734
	68	01	FB	0012D	CALLS	#1, LIB\$SIGNAL		
		04	00130	RET				1736
		50	DD	00131	PUSHL	R0		1737
		7E	D4	00133	CLRL	-(SP)		
		8F	DD	00135	PUSHL	#UAF\$ ADDERR		
	68	03	FB	0013B	CALLS	#3, LIB\$SIGNAL		
		0080	31	0013E	BRW	25\$		1738
CC	AA	01	D0	00141	MOVL	#1, MODIFY_FLAG		1746
		5E	DD	00145	PUSHL	SP		1747
	08	67	E8	00147	BLBS	UAF\$GL_CTLMSK, 18\$		
		8F	DD	0014A	PUSHL	#26214\$		
		06	11	00150	BRB	19\$		
		8F	DD	00152	PUSHL	#327682		
00000000V	00	02	FB	00158	CALLS	#2, SECURITY_AUDIT		
	5B	67	E8	0015F	BLBS	UAF\$GL_CTLMSR, 24\$		1751
		8F	DD	00162	PUSHL	#UAF\$ COPMSG		1754
	68	01	FB	00168	CALLS	#1, LIB\$SIGNAL		
11	67	03	E1	0016B	BBC	#3, UAF\$GL_CTLMSK, 20\$		1755
0D	67	04	E0	0016F	BBS	#4, UAF\$GL_CTLMSK, 20\$		1756
09	67	05	E1	00173	BBC	#5, UAF\$GL_CTLMSK, 20\$		1757
		8F	DD	00177	PUSHL	#UAF\$ CLIWARNMSG		1758
	68	01	FB	0017D	CALLS	#1, LIB\$SIGNAL		
	09	C7	E9	00180	BLBC	PWD_FLAG, 21\$		1763
		8F	DD	00185	PUSHL	#UAF\$ DEFPWD		1764
	68	01	FB	0018B	CALLS	#1, LIB\$SIGNAL		
	67	04	8A	0018E	BICB2	#4, UAF\$GL_CTLMSK		1765
		A9	9F	00191	PUSHAB	SD_ADD_IDENTIFIER		1766
	68	01	FB	00194	CALLS	#1, CLIS\$PRESENT		
	23	50	E9	00197	BLBC	R0, 24\$		
	1F	A7	E9	0019A	BLBC	RDB_EXISTS, 24\$		1767
		AA	9F	0019E	PUSHAB	SD_ATTRIBUTES		1774
	68	01	FB	001A1	CALLS	#1, CLIS\$PRESENT		
	09	50	E9	001A4	BLBC	R0, 22\$		
00000000G	00	01	D0	001A7	MOVL	#1, ATTRIBUTES		1775
		06	11	001AE	BRB	23\$		
		00	D4	001B0	CLRL	ATTRIBUTES		1776
00000000G	00	00	FB	001B6	CALLS	#0, UAF\$ADD_IDENT_RECBUF		1777
	50	01	D0	001BD	MOVL	#1, R0		1791
		04	001C0	RET				
		50	D4	001C1	CLRL	R0		1793
		04	001C3	RET				

; Routine Size: 452 bytes, Routine Base: \$CODE\$ + 06BD


```
: 1707 1794 1 %sbtll 'create_proxy - create NETUAF.DAT proxy file'
: 1708 1795 1 global routine create_proxy : novalue =
: 1709 1796 2 begin
: 1710 1797 2
: 1711 1798 2 ++
: 1712 1799 2
: 1713 1800 2
: 1714 1801 2 FUNCTIONAL DESCRIPTION:
: 1715 1802 2
: 1716 1803 2 This routine will create a DECnet Proxy Login File,
: 1717 1804 2 if and only if it does not already exist,
: 1718 1805 2 called NETUAF.DAT, in order to map remote users into
: 1719 1806 2 local accounts.
: 1720 1807 2
: 1721 1808 2 INPUTS:
: 1722 1809 2
: 1723 1810 2 none
: 1724 1811 2
: 1725 1812 2 OUTPUTS:
: 1726 1813 2
: 1727 1814 2 none
: 1728 1815 2
: 1729 1816 2 IMPLICIT INPUTS:
: 1730 1817 2
: 1731 1818 2 none
: 1732 1819 2
: 1733 1820 2 IMPLICIT OUTPUTS:
: 1734 1821 2
: 1735 1822 2 none
: 1736 1823 2
: 1737 1824 2 SIDE EFFECTS:
: 1738 1825 2
: 1739 1826 2 NETUAF.DAT is created and initialized
: 1740 1827 2
: 1741 1828 2 --
: 1742 1829 2
: 1743 1830 2
: 1744 1831 2 NETUAF.DAT should not already exist
: 1745 1832 2
: 1746 1833 2 if .netuaf_exists
: 1747 1834 2 then
: 1748 1835 2 begin
: 1749 1836 2 LIB$SIGNAL(UAF$_NAFAEX);
: 1750 1837 2 return;
: 1751 1838 2 end;
: 1752 1839 2
: 1753 1840 2
: 1754 1841 2 Should be able to create NETUAF.DAT with no problems
: 1755 1842 2
: 1756 1843 2 if rmsbad ($create (fab = naffab))
: 1757 1844 2 then LIB$SIGNAL(UAF$_NAFCREERR, 0, .rmserr);
: 1758 1845 2
: 1759 1846 2
: 1760 1847 2 Should connect ok, too
: 1761 1848 2
: 1762 1849 2 if rmsbad ($connect (rab = nafrab))
: 1763 1850 2 then LIB$SIGNAL(UAF$_NAFCONERR, 0, .rmserr);
```



```
1764 1851 2
1765 1852 2
1766 1853 2 Normal access is by key
1767 1854 2
1768 1855 2 nafrab [rab$b_rac] = rab$c_key;
1769 1856 2
1770 1857 2
1771 1858 2 Establish proper addresses
1772 1859 2
1773 1860 2 nafrab [rab$l_ubf] = netbuf;
1774 1861 2 nafrab [rab$l_rbf] = netbuf;
1775 1862 2
1776 1863 2
1777 1864 2 Set NETUAF.DAT existence flag
1778 1865 2
1779 1866 2 netuaf_exists = true;
1780 1867 2 netuaf_modified = true;
1781 1868 2
1782 1869 1 end;
```

			000C	00000	.ENTRY	CREATE PROXY, Save R2,R3		1795
	53	00000000G	00	9E 00002	MOVAB	LIB\$SIGNAL, R3		
	52	00000000'	00	9E 00009	MOVAB	RMSERR, R2		
	0A	F8	A2	E9 00010	BLBC	NETUAF EXISTS, 1\$		1833
		00000000G	8F	DD 00014	PUSHL	#UAF\$ NAFAEX		1836
	63		01	FB 0001A	CALLS	#1, LIB\$SIGNAL		
				04 0001D	RET			1835
		00000000'	00	9F 0001E 1\$:	PUSHAB	NAFFAB		1843
00000000G	00		01	FB 00024	CALLS	#1, SYSS\$CREATE		
	62		50	D0 0002B	MOVL	R0, RMSERR		
	0D		50	E8 0002E	BLBS	R0, 2\$		
			62	DD 00031	PUSHL	RMSERR		1844
			7E	D4 00033	CLRL	-(SP)		
		00000000G	8F	DD 00035	PUSHL	#UAF\$ NAFCREERR		
	63		03	FB 0003B	CALLS	#3, LIB\$SIGNAL		
		0634	C2	9F 0003E 2\$:	PUSHAB	NAFRAB		1849
00000000G	00		01	FB 00042	CALLS	#1, SYSS\$CONNECT		
	62		50	D0 00049	MOVL	R0, RMSERR		
	0D		50	E8 0004C	BLBS	R0, 3\$		
			62	DD 0004F	PUSHL	RMSERR		1850
			7E	D4 00051	CLRL	-(SP)		
		00000000G	8F	DD 00053	PUSHL	#UAF\$ NAFCONERR		
	63		03	FB 00059	CALLS	#3, LIB\$SIGNAL		
	0652	C2	01	90 0005C 3\$:	MOVB	#1, NAFRAB+30		1855
	0658	C2	058C	9E 00061	MOVAB	NETBUF, NAFRAB+36		1860
	065C	C2	058C	9E 00068	MOVAB	NETBUF, NAFRAB+40		1861
	F8	A2	01	D0 0006F	MOVL	#1, NETUAF_EXISTS		1866
00000000'	00		01	D0 00073	MOVL	#1, NETUAF_MODIFIED		1867
			04	0007A	RET			1869

; Routine Size: 123 bytes, Routine Base: \$CODE\$ + 0881

modify_uaf - update user record (s)

```
1784 1870 1 %sbttl 'modify_uaf - update user record (s)'  
1785 1871 1 global routine modify_uaf : novalue =  
1786 1872 2 begin  
1787 1873 2  
1788 1874 2 ++  
1789 1875 2  
1790 1876 2 FUNCTIONAL DESCRIPTION:  
1791 1877 2  
1792 1878 2 Routine to modify any of the fields in one or more user records.  
1793 1879 2  
1794 1880 2 INPUTS:  
1795 1881 2  
1796 1882 2 none  
1797 1883 2  
1798 1884 2 IMPLICIT INPUTS:  
1799 1885 2  
1800 1886 2 none  
1801 1887 2  
1802 1888 2 OUTPUTS:  
1803 1889 2  
1804 1890 2 none  
1805 1891 2  
1806 1892 2 IMPLICIT OUTPUTS:  
1807 1893 2  
1808 1894 2 none  
1809 1895 2  
1810 1896 2 SIDE EFFECTS:  
1811 1897 2  
1812 1898 2 none  
1813 1899 2  
1814 1900 2 ROUTINE VALUE:  
1815 1901 2  
1816 1902 2 none  
1817 1903 2 --  
1818 1904 2  
1819 1905 2 local  
1820 1906 2 status;  
1821 1907 2  
1822 1908 2  
1823 1909 2 Obtain the user specification. This sets wildcard flags and initializes  
1824 1910 2 the appropriate key in RECBUF.  
1825 1911 2  
1826 1912 2  
1827 1913 2 if not parse_wild (sd_token1,false) ! Null string is disallowed  
1828 1914 2 then return;  
1829 1915 2  
1830 1916 2 uafcab[raab$l_rop] = raab$m_rlk; ! Lock records for writing  
1831 1917 2 raabptr = outcab;  
1832 1918 2 found_match = false;  
1833 1919 2  
1834 1920 2 if rmsbad (status = wild_user (modify_rec)) ! Modify each record  
1835 1921 2 then  
1836 1922 2 begin  
1837 1923 2 if .rmserr eql rms$_rnf  
1838 1924 2 then  
1839 1925 2 LIB$SIGNAL(UAF$_BADSPC)  
1840 1926 2 else
```



```
1841      1927  4      (if .rmserr neq 0
1842      1928  4      then
1843      1929  4      LIB$SIGNAL(UAF$_MDFYERR, 0, .rmserr))
1844      1930  3      end
1845      1931  2      else
1846      1932  3      begin
1847      1933  3      if .status and .found_match
1848      1934  3      then
1849      1935  4      begin
1850      1936  4      LIB$SIGNAL(UAF$_MDFYMSG);
1851      1937  5      if (.uaf$gl_ctlmsk[uaf$cli]
1852      1938  5      and not .uaf$gl_ctlmsk[uaf$clitables])
1853      1939  4      and .uaf$gl_ctlmsk[uaf$cliab_pres]
1854      1940  4      then LIB$SIGNAL(UAF$_CLIWARNMSG);
1855      1941  3      end;
1856      1942  2      end;
1857      1943  1      end;
```

			001C 00000	.ENTRY	MODIFY UAF, Save R2,R3,R4		1871
	54	00000000G	00 9E 00002	MOVAB	LIB\$SIGNAL, R4		
	53	00000000'	00 9E 00009	MOVAB	UAF\$GL_CTLMSK, R3		
			7E D4 00010	CLRL	-(SP)		1913
		00000000'	00 9F 00012	PUSHAB	SD_TOKEN1		
	00000000G	00	02 FB 00018	CALLS	#2, PARSE_WILD		
	71		50 E9 0001F	BLBC	R0, 4\$		
0668	C3	00080000	8F D0 00022	MOVL	#524288, UAFRAB+4		1916
F4	A3	06F8	C3 9E 0002B	MOVAB	OUTRAB, RABPTR		1917
		073C	C3 D4 00031	CLRL	FOUND_MATCH		1918
		00000000V	00 9F 00035	PUSHAB	MODIFY_REC		1920
	00000000V	00	01 FB 0003B	CALLS	#1, WILD_USER		
	74	A3	50 D0 00042	MOVL	STATUS, RMSERR		
	27		50 E8 00046	BLBS	STATUS, 2\$		
	52	74	A3 D0 00049	MOVL	RMSERR, R2		1923
000182B2	8F		52 D1 0004D	CMPL	R2, #98994		
			08 12 00054	BNEQ	1\$		
		00000000G	8F DD 00056	PUSHL	#UAF\$_BADSPC		1925
			32 11 0005C	BRB	3\$		
			52 D5 0005E 1\$:	TSTL	R2		1927
			31 13 00060	BEQL	4\$		
			52 DD 00062	PUSHL	R2		1929
			7E D4 00064	CLRL	-(SP)		
		00000000G	8F DD 00066	PUSHL	#UAF\$_MDFYERR		
	64		03 FB 0006C	CALLS	#3, LIB\$SIGNAL		
			04 0006F	RET			1922
	1E	073C	C3 E9 00070 2\$:	BLBC	FOUND_MATCH, 4\$		1933
		00000000G	8F DD 00075	PUSHL	#UAF\$_MDFYMSG		1936
	64		01 FB 0007B	CALLS	#1, LIB\$SIGNAL		
11	63		03 E1 0007E	BBC	#3, UAF\$GL_CTLMSK, 4\$		1937
0D	63		04 E0 00082	BBS	#4, UAF\$GL_CTLMSK, 4\$		1938
09	63		05 E1 00086	BBC	#5, UAF\$GL_CTLMSK, 4\$		1939
		00000000G	8F DD 0008A	PUSHL	#UAF\$_CLIWARNMSG		1940
	64		01 FB 00090 3\$:	CALLS	#1, LIB\$SIGNAL		
			04 00093 4\$:	RET			1943

UAFMAIN
V04-000

modify_uaf - update user record (s)

K 15
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 Page 69
(10)

; Routine Size: 148 bytes, Routine Base: \$CODE\$ + 08FC

```
1859 1944 1 %sbttl 'modify_rec - update a user record action routine'
1860 1945 1 routine modify_rec =
1861 1946 2 begin
1862 1947 2
1863 1948 2 ++
1864 1949 2
1865 1950 2 FUNCTIONAL DESCRIPTION:
1866 1951 2
1867 1952 2     Modify an individual user record.
1868 1953 2
1869 1954 2 INPUTS:
1870 1955 2
1871 1956 2     none
1872 1957 2
1873 1958 2 IMPLICIT INPUTS:
1874 1959 2
1875 1960 2     RABPTR - RMS data structure for the file
1876 1961 2
1877 1962 2 OUTPUTS:
1878 1963 2
1879 1964 2     none
1880 1965 2
1881 1966 2 IMPLICIT OUTPUTS:
1882 1967 2
1883 1968 2     none
1884 1969 2
1885 1970 2 SIDE EFFECTS:
1886 1971 2
1887 1972 2     none
1888 1973 2
1889 1974 2 ROUTINE VALUE:
1890 1975 2
1891 1976 2     If an error is encountered the appropriate status is returned
1892 1977 2     except if the error message has already been output in which
1893 1978 2     case 0 is returned.
1894 1979 2 --
1895 1980 2
1896 1981 2 local
1897 1982 2     old_uic      : $bblock[4],
1898 1983 2     new_uic      : $bblock[4],
1899 1984 2     oldaccname   : vector [uaf$s_account,byte],
1900 1985 2     newaccname   : vector [uaf$s_account,byte],
1901 1986 2     oldaccdesc   : statdesc ,
1902 1987 2     newaccdesc   : statdesc ,
1903 1988 2     status       : long ;
1904 1989 2
1905 1990 2
1906 1991 2 User record has been read into RECBUF by caller. Update values
1907 1992 2 and modify the record.
1908 1993 2
1909 1994 2 When accessing records by uic, this routine is called repeatedly
1910 1995 2 from WILD_USER. UPDATE_RECORD is called to modify the appropriate
1911 1996 2 record fields for each requested record, and therefore must
1912 1997 2 reparse the command line each time. If call_count is greater
1913 1998 2 than 0, the command line is reparsed.
1914 1999 2
1915 2000 2
```


modify_rec - update a user record action routin

```
: 1916      2001 2  !IF .by_account
: 1917      2002 2  !THEN
: 1918      2003 2  !      (IF NOT fmg$match_name (NAMELEN (UAF$$_ACCOUNT,UAF$_ACCOUNT),
: 1919      2004 2  !          RECBUF[UAF$_ACCOUNT],
: 1920      2005 2  !              .match_tokenlen, match_token)
: 1921      2006 2  !      THEN
: 1922      2007 2  !          RETURN TRUE)
: 1923      2008 2  !ELSE
: 1924      2009 2  !if .str_wild
: 1925      2010 2  !and not fmg$match_name (namelen (uaf$$_username,recbuf[uaf$_username]),
: 1926      2011 2  !          recbuf[uaf$_username],
: 1927      2012 2  !              .match_tokenlen, match_token)
: 1928      2013 2  !then return true;
: 1929      2014 2  !found_match = true;
: 1930      2015 2  !
: 1931      2016 2  !if ch$eq (defuser<0,8>, defuser+1, .tokenlen, .tokenptr, ' ')
: 1932      2017 2  !or ch$eq (defuser<0,8>, defuser+1,
: 1933      2018 2  !    namelen (uaf$$_username, recbuf[uaf$_username]),
: 1934      2019 2  !    recbuf[uaf$_username], ' ')
: 1935      2020 2  !then
: 1936      2021 2  !begin
: 1937      2022 2  !    mod_default = true;
: 1938      2023 2  !    default_uaf ();
: 1939      2024 2  !    call_count = .call_count + 1;
: 1940      2025 2  !    return true;
: 1941      2026 2  !end;
: 1942      2027 2  !
: 1943      2028 2  !
: 1944      2029 2  ! Save the old UIC and account name
: 1945      2030 2  !
: 1946      2031 2  !old_uic[uic$_v_format] = 0 ;
: 1947      2032 2  !old_uic[uic$_v_group] = .recbuf [uaf$_w_grp] ;
: 1948      2033 2  !old_uic[uic$_v_member] = .recbuf [uaf$_w_mem] ;
: 1949      2034 2  !ch$move ( uaf$$_account, recbuf[uaf$_account], oldaccname ) ;
: 1950      2035 2  !oldaccdesc [length] = namelen ( uaf$$_account, recbuf[uaf$_account]) ;
: 1951      2036 2  !oldaccdesc [pointer] = oldaccname ;
: 1952      2037 2  !
: 1953      2038 2  !if update_record ()
: 1954      2039 2  !then
: 1955      2040 2  !begin
: 1956      2041 2  !
: 1957      2042 2  ! Save the new UIC and account name
: 1958      2043 2  !
: 1959      2044 2  !new_uic[uic$_v_format] = 0 ;
: 1960      2045 2  !new_uic[uic$_v_group] = .recbuf [uaf$_w_grp] ;
: 1961      2046 2  !new_uic[uic$_v_member] = .recbuf [uaf$_w_mem] ;
: 1962      2047 2  !ch$move ( uaf$$_account, recbuf[uaf$_account], newaccname ) ;
: 1963      2048 2  !newaccdesc [length] = namelen ( uaf$$_account, recbuf[uaf$_account]) ;
: 1964      2049 2  !newaccdesc [pointer] = newaccname ;
: 1965      2050 2  !
: 1966      2051 2  !
: 1967      2052 2  ! Update the UAF record
: 1968      2053 2  !
: 1969      2054 2  !if rmsbad ($update (rab = uaf$rab))
: 1970      2055 2  !then
: 1971      2056 2  !begin
: 1972      2057 2  !    LIB$SIGNAL(UAF$_MDFYERR, 0, .rmserr);
```

modify_rec - update a user record action routin

```

: 1973      2058  4      return .rmserr
: 1974      2059  4      end
: 1975      2060  3      else
: 1976      2061  4      begin
: 1977      2062  4      modify_flag = true;
: 1978      2063  4      security_audit (nsa$sk_recid_sysuaf_mod);
: 1979      2064  4      call_count = .call_count + 1;
: 1980      2065  3      end;
: 1981      2066  3
: 1982      2067  4      if (cli$present ( sd_modify_identifier ) and
: 1983      2068  4      .rdb_exists )
: 1984      2069  3      then
: 1985      2070  4      begin
: 1986      2071  4
: 1987      2072  4      |
: 1988      2073  4      | If the UIC changed then modify the identifiers
: 1989      2074  4      |
: 1990      2075  4      if .old_uic neq .new_uic
: 1991      2076  4      then
: 1992      2077  5      begin
: 1993      2078  5      local
: 1994      2079  5      oldidname      : vector [kgb$s_name, byte],
: 1995      2080  5      oldiddesc      : statdesc ;
: 1996      2081  5
: 1997      2082  5      oldiddesc[length] = kgb$s_name ;
: 1998      2083  5      oldiddesc[pointer] = oldidname ;
: 1999      2084  5      status = $idtoasc ( id      = .old_uic,
: 2000      2085  5      namlen = oldiddesc[length],
: 2001      2086  5      nambuf = oldiddesc ) ;
: 2002      2087  5
: 2003      2088  5      if not .status
: 2004      2089  5      then LIB$SIGNAL(UAF$_RDBMDFYERRU, 2,
: 2005      2090  5      .old_uic[uic$v_group],
: 2006      2091  5      .old_uic[uic$v_member], .status)
: 2007      2092  5
: 2008      2093  5      else if .status
: 2009      2094  6      then
: 2010      2095  6      begin
: 2011      2096  6      status = $mod_ident ( id      = .old_uic,
: 2012      2097  6      new_value = .new_uic ) ;
: 2013      2098  6
: 2014      2099  6      if not .status
: 2015      2100  6      then LIB$SIGNAL(UAF$_RDBMDFYERR, 1, oldiddesc, .status)
: 2016      2101  7      else
: 2017      2102  7      begin
: 2018      2103  7      rightslist_modified = true ;
: 2019      2104  6      LIB$SIGNAL(UAF$_RDBMDFYMSG, 1, oldiddesc);
: 2020      2105  5      end ;
: 2021      2106  4      end ;
: 2022      2107  3      end ;
: 2023      2108  3      return true ;
: 2024      2109  3      end
: 2025      2110  3      else
: 2026      2111  3      begin
: 2027      2112  3      $release (rab = uaf$rab);
: 2028      2113  3      return false
: 2029      2114  3      end

```


.EXTRN SYSSUPDATE, SYSSMOD_IDENT
.EXTRN SYSSRELEASE

07FC 00000 MODIFY_REC:

			5A	00000000G	00	9E	00002	.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10	1945
			59	000000000	00	9E	00009	MOVAB	LIB\$SIGNAL, R10	
			58	000000000	00	9E	00010	MOVAB	DEFUSER+1, R9	
			5E	88	AE	9E	00017	MOVAB	RECBUF+4, R8	
			AE	010E0000	8F	D0	0001B	MOVAB	-120(SP), SP	
		30		34	AE	D4	00023	MOVL	#17694720, OLDACCDISC	1986
		28	AE	010E0000	8F	D0	00026	CLRL	OLDACCDISC+4	
				2C	AE	D4	0002E	MOVL	#17694720, NEWACCDISC	1987
			1F	06CC	C8	E9	00031	CLRL	NEWACCDISC+4	
			55	8C	A8	9E	00036	BLBC	STR WILD, 1\$	2009
			53		68	9E	0003A	MOVAB	MATCH TOKEN, R5	2011
	68		20		20	3A	0003D	MOVAB	RECBUF+4, R3	
			52	E0	A0	9E	00041	LOCC	#32, #32, RECBUF+4	2010
			52		52	CE	00045	MOVAB	-32(R0), R2	
			54	D0	A8	D0	00048	MNEGL	R2, R2	
				00000000G	00	16	0004C	MOVL	MATCH TOKENLEN, R4	2011
			37		50	E9	00052	JSB	FMG\$MATCH_NAME	
	06BC		C8		01	D0	00055	BLBC	R0, 3\$	
			54	FF	A9	9A	0005A	MOVL	#1, FOUND MATCH	2014
			50	E0	A8	D0	0005E	MOVZBL	DEFUSER, R4	2016
DC	A8	20	69		54	2D	00062	MOVL	TOKENPTR, R0	
					60		00068	CMPC5	R4, DEFUSER+1, #32, TOKENLEN, (R0)	
					10	13	00069			
		68	20		20	3A	0006B	BEQL	2\$	
		50	20		50	C3	0006F	LOCC	#32, #32, RECBUF+4	2018
50		20	69		54	2D	00073	SUBL3	R0, #32, R0	
					68		00078	CMPC5	R4, DEFUSER+1, #32, R0, RECBUF+4	2019
					14	12	00079			
		000000000	00		01	D0	0007B	BNEQ	4\$	
		00000000V	00		00	FB	00082	MOVL	#1, MOD_DEFAULT	2022
				D8	A8	D6	00089	CALLS	#0, DEFAULT_UAF	2023
					0122	31	0008C	INCL	CALL_COUNT	2024
56		02	1E		00	F0	0008F	BRW	10\$	2025
56		0E	10		22	A8	00094	INSV	#0, #30, #2, OLD_UIC	2031
			56		20	A8	0009A	INSV	RECBUF+38, #16, #14, OLD_UIC	2032
	58	AE	30	A8	20	B0	0009A	MOVW	RECBUF+36, OLD_UIC	2033
30	A8		20	20	20	28	0009E	MOVW	RECBUF+36, OLD_UIC	2033
30	AE		20	20	20	3A	000A4	MOVW	RECBUF+36, OLD_UIC	2033
			20	20	50	A3	000A9	MOVW	RECBUF+36, OLD_UIC	2033
		34	AE	58	AE	9E	000AE	MOVW	#32, RECBUF+52, OLDACCNAME	2034
	00000000G		00	00	00	FB	000B3	LOCC	#32, #32, RECBUF+52	2035
			03		50	E8	000BA	SUBW3	R0, #32, OLDACCDISC	
				00F5	31	000BD		MOVAB	OLDACCNAME, OLDACCDISC+4	2036
					00	FB	000B3	CALLS	#0, UPDATE_RECORD	2038
					50	E8	000BA	BLBS	R0, 5\$	
					00F5	31	000BD	BRW	11\$	
57		02	1E		00	F0	000C0	INSV	#0, #30, #2, NEW_UIC	2044
57		0E	10		22	A8	000C5	INSV	RECBUF+38, #16, #14, NEW_UIC	2045
			57		20	A8	000CB	MOVW	RECBUF+36, NEW_UIC	2046
	38	AE	30	A8	20	28	000CF	MOVW	RECBUF+36, NEW_UIC	2046
	30	A8		20	20	3A	000D5	MOVW	#32, RECBUF+52, NEWACCNAME	2047
	28	AE		20	50	A3	000DA	LOCC	#32, #32, RECBUF+52	2048
								SUBW3	R0, #32, NEWACCDISC	

2C	AE	38	AE	9E	000DF	MOVAB	NEWACCNAME, NEWACCDDESC+4	2049
		05E4	C8	9F	000E4	PUSHAB	UAFRAB	2054
00000000G	00		01	FB	000E8	CALLS	#1, SYSSUPDATE	
F4	A8		50	D0	000EF	MOVL	R0, RMSERR	
	13		50	E8	000F3	BLBS	R0, 6\$	
		F4	A8	DD	000F6	PUSHL	RMSERR	2057
			7E	D4	000F9	CLRL	-(SP)	
		00000000G	8F	DD	000FB	PUSHL	#UAF\$ MDFYERR	
	6A		03	FB	00101	CALLS	#3, LTBSSIGNAL	
	50	F4	A8	D0	00104	MOVL	RMSERR, R0	2058
				04	00108	RET		
00000000'	00		01	D0	00109	MOVL	#1, MODIFY_FLAG	2062
		00030002	8F	DD	00110	PUSHL	#196610	2063
00000000V	00		01	FB	00116	CALLS	#1, SECURITY_AUDIT	
		D8	A8	D6	0011D	INCL	CALL COUNT	2064
		FF63	C9	9F	00120	PUSHAB	SD MODIFY IDENTIFIER	2067
00000000G	00		01	FB	00124	CALLS	#1, CLISPRESENT	
	70		50	E9	0012B	BLBC	R0, 8\$	
	7F	F0	A8	E9	0012E	BLBC	RDB EXISTS, 10\$	2068
	57		56	D1	00132	CMP	OLD_UIC, NEW_UIC	2075
			7A	13	00135	BEQL	10\$	
	6E	010E0000	8F	D0	00137	MOVL	#17694720, OLDDIDDESC	2080
		04	AE	D4	0013E	CLRL	OLDDIDDESC+4	
	6E		20	B0	00141	MOVW	#32, OLDDIDDESC	2082
04	AE	08	AE	9E	00144	MOVAB	OLDIDNAME, OLDDIDDESC+4	2083
			7E	7C	00149	CLRQ	-(SP)	2086
			7E	D4	0014B	CLRL	-(SP)	
		0C	AE	9F	0014D	PUSHAB	OLDDIDDESC	
		10	AE	9F	00150	PUSHAB	OLDDIDDESC	
			56	DD	00153	PUSHL	OLD_UIC	
00000000G	00		06	FB	00155	CALLS	#6, SYSSIDTOASC	
	52		50	D0	0015C	MOVL	R0, STATUS	
	17		52	E8	0015F	BLBS	STATUS, 7\$	2088
			52	DD	00162	PUSHL	STATUS	2091
	7E		56	3C	00164	MOVZWL	OLD_UIC, -(SP)	
7E	0E		10	EF	00167	EXTZV	#16, #14, OLD_UIC, -(SP)	2090
			02	DD	0016C	PUSHL	#2	2089
		00000000G	8F	DD	0016E	PUSHL	#UAF\$ RDBMDFYERR	
	6A		05	FB	00174	CALLS	#5, LTBSSIGNAL	
			38	11	00177	BRB	10\$	
			57	DD	00179	PUSHL	NEW UIC	2096
			7E	7C	0017B	CLRQ	-(SP)	
			7E	D4	0017D	CLRL	-(SP)	
			56	DD	0017F	PUSHL	OLD_UIC	
00000000G	00		05	FB	00181	CALLS	#5, SYSSMOD_IDENT	
	52		50	D0	00188	MOVL	R0, STATUS	
	12		52	E8	0018B	BLBS	STATUS, 9\$	2098
			52	DD	0018E	PUSHL	STATUS	2099
		04	AE	9F	00190	PUSHAB	OLDDIDDESC	
			01	DD	00193	PUSHL	#1	
		00000000G	8F	DD	00195	PUSHL	#UAF\$ RDBMDFYERR	
	6A		04	FB	0019B	CALLS	#4, LTBSSIGNAL	
			11	11	0019E	BRB	10\$	
F8	A8		01	90	001A0	MOVB	#1, RIGHTSLIST_MODIFIED	2102
			5E	DD	001A4	PUSHL	SP	2103
			01	DD	001A6	PUSHL	#1	
		00000000G	8F	DD	001A8	PUSHL	#UAF\$ RDBMDFYMSG	

UAFMAIN
V04-000

modify_rec - update a user record action routine

D 16

16-Sep-1984 02:16:54

VAX-11 Bliss-32 V4.0-742

Page 75

14-Sep-1984 13:21:22

DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (11)

6A	03	FB	001AE	CALLS	#3, LIB\$SIGNAL	:	
50	01	D0	001B1	10\$:	MOVL	#1, R0	: 2111
		04	001B4	RET			:
00000000G 00	05E4	C8	9F 001B5	11\$:	PUSHAB	UAFRAB	: 2112
		01	FB 001B9	CALLS	#1, SYSS\$RELEASE		:
		50	D4 001C0	CLRL	R0		: 2113
		04	001C2	RET			: 2115

; Routine Size: 451 bytes, Routine Base: \$CODE\$ + 0990

remove_uaf - remove username from file

```
: 2032      2116 1 %sbttl 'remove_uaf - remove username from file'
: 2033      2117 1 global routine remove_uaf : novalue =
: 2034      2118 2 begin
: 2035      2119 2
: 2036      2120 2 ++
: 2037      2121 2
: 2038      2122 2 FUNCTIONAL DESCRIPTION:
: 2039      2123 2
: 2040      2124 2 Routine to delete a user record from the UAF file.
: 2041      2125 2
: 2042      2126 2 INPUTS:
: 2043      2127 2
: 2044      2128 2 none
: 2045      2129 2
: 2046      2130 2 OUTPUTS:
: 2047      2131 2
: 2048      2132 2 none
: 2049      2133 2
: 2050      2134 2 IMPLICIT INPUTS:
: 2051      2135 2
: 2052      2136 2 rename: a logical flag which indicates whether this COPY is part
: 2053      2137 2 of a RENAME operation
: 2054      2138 2
: 2055      2139 2 ROUTINE VALUE:
: 2056      2140 2
: 2057      2141 2 none
: 2058      2142 2
: 2059      2143 2 SIDE EFFECTS:
: 2060      2144 2
: 2061      2145 2 This routine also deletes any NETUAF entries for the
: 2062      2146 2 local user which is to be removed (If NETUAF.DAT exists)
: 2063      2147 2
: 2064      2148 2 --
: 2065      2149 2
: 2066      2150 2
: 2067      2151 2 Look for the record specified by the user. Make sure
: 2068      2152 2 the DEFAULT and SYSTEM records are not removed.
: 2069      2153 2
: 2070      2154 2
: 2071      2155 2 if get_user_record (true, false)
: 2072      2156 2 then
: 2073      2157 2
: 2074      2158 2
: 2075      2159 2 User record has been found and read into RECBUF
: 2076      2160 2 Zero the username field and update the record in the file
: 2077      2161 2
: 2078      2162 2 begin
: 2079      2163 2 if rmsbad ($delete (rab=uafrab))
: 2080      2164 2 then
: 2081      2165 2 LIB$SIGNAL(UAF$_REMERR, 0, .rmserr)
: 2082      2166 2 else
: 2083      2167 2 begin
: 2084      2168 2 modify_flag = true; ! mark file as modified
: 2085      2169 2 if not .uaf$gl_ctlmsk[uaf$v_rename]
: 2086      2170 2 then
: 2087      2171 2 security_audit (nsa$recid_sysuaf_del);
: 2088      2172 2 if not .uaf$gl_ctlmsk[uaf$v_rename]
```


remove_uaf - remove username from file

```
2089      2173 4      then
2090      2174 5      begin
2091      2175 5
2092      2176 5      If there is a proxy login file, delete entries for
2093      2177 5      the user just removed from SYSUAF.DAT
2094      2178 5
2095      2179 5      if .netuaf_exists
2096      2180 5      then adjust_proxy (remove_records);
2097      2181 5      LIB$SIGNAL(UAF$_REMMMSG);
2098      2182 5
2099      2183 5      Unless specifically requested not to
2100      2184 5      remove the corresponding identifier from the
2101      2185 5      rights data base.
2102      2186 5
2103      2187 6      if (cli$present ( sd_remove_identifier ) and
2104      2188 6      .rdb_exists )
2105      2189 5      then
2106      2190 5      uaf$remove_ident_recbuf ( );
2107      2191 4      end;
2108      2192 3      end;
2109      2193 2      end;
2110      2194 1      end;
```

				000C 00000	.EXTRN SYS\$DELETE	
				00 9E 00002	.ENTRY REMOVE_UAF, Save R2,R3	2117
				00 9E 00009	MOVAB LIB\$SIGNAL, R3	
				01 7D 00010	MOVAB RMSERR, R2	
00000000V	00			02 FB 00013	MOVQ #1, -(SP)	2155
	6C			50 E9 0001A	CALLS #2, GET_USER_RECORD	
		05F0		C2 9F 0001D	BLBC R0, 3\$	
00000000G	00			01 FB 00021	PUSHAB UAFRAB	2163
	62			50 D0 00028	CALLS #1, SYS\$DELETE	
	0E			50 E8 0002B	MOVL R0, RMSERR	
				62 DD 0002E	BLBS R0, 1\$	
				7E D4 00030	PUSHL RMSERR	2165
		00000000G		8F DD 00032	CLRL -(SP)	
	63			03 FB 00038	PUSHL #UAF\$ REMERR	
				04 0003B	CALLS #3, LIB\$SIGNAL	
00000000'	00			01 D0 0003C 1\$:	RET	
	42	8C		A2 E8 00043	MOVL #1, MODIFY_FLAG	2168
		00020002		8F DD 00047	BLBS UAF\$GL_CTLMSK, 3\$	2169
00000000V	00			01 FB 0004D	PUSHL #131074	2171
	31	8C		A2 E8 00054	CALLS #1, SECURITY_AUDIT	
	09	F8		A2 E9 00058	BLBS UAF\$GL_CTLMSK, 3\$	2172
				01 DD 0005C	BLBC NETUAF_EXISTS, 2\$	2179
00000000V	00			01 FB 0005E	PUSHL #1	2180
		00000000G		8F DD 00065 2\$:	CALLS #1, ADJUST_PROXY	
	63			01 FB 0006B	PUSHL #UAF\$ REMMSG	2181
		00000000'		00 9F 0006E	CALLS #1, LIB\$SIGNAL	
00000000G	00			01 FB 00074	PUSHL SD_REMOVE_IDENTIFIER	2187
	0B			50 E9 0007B	CALLS #1, CLIPRESENT	
	07	FC		A2 E9 0007E	BLBC R0, 3\$	
00000000G	00			00 FB 00082	BLBC RDB_EXISTS, 3\$	2188
					CALLS #0, UAF\$REMOVE_IDENT_RECBUF	2190

UAFMAIN
V04-000

remove_uaf - remove username from file

G 16
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (12)

Page 78

04 00089 3\$: RET

; 2194

; Routine Size: 138 bytes, Routine Base: \$CODE\$ + 0B53

remove_proxy - remove a proxy record

```
2112 2195 1 %sbttl 'remove_proxy - remove a proxy record'
2113 2196 1 global routine remove_proxy : novalue =
2114 2197 2 begin
2115 2198 2
2116 2199 2 ++
2117 2200 2
2118 2201 2 FUNCTIONAL CHARACTERISTICS:
2119 2202 2
2120 2203 2 This routine removes proxy login entries from NETUAF.DAT
2121 2204 2
2122 2205 2 INPUTS:
2123 2206 2
2124 2207 2 none
2125 2208 2
2126 2209 2 OUTPUTS:
2127 2210 2
2128 2211 2 none
2129 2212 2
2130 2213 2 IMPLICIT INPUTS:
2131 2214 2
2132 2215 2 none
2133 2216 2
2134 2217 2 IMPLICIT OUTPUTS:
2135 2218 2
2136 2219 2 none
2137 2220 2
2138 2221 2 ROUTINE VALUE:
2139 2222 2
2140 2223 2 none
2141 2224 2
2142 2225 2 SIDE EFFECTS:
2143 2226 2
2144 2227 2 An entry is removed from NETUAF.DAT
2145 2228 2
2146 2229 2 --
2147 2230 2
2148 2231 2 local
2149 2232 2 node_len,
2150 2233 2 node_ptr,
2151 2234 2 remuser_len,
2152 2235 2 remuser_ptr,
2153 2236 2 counter,
2154 2237 2 success;
2155 2238 2
2156 2239 2
2157 2240 2 Make sure NETUAF.DAT exists
2158 2241 2
2159 2242 2 if not .netuaf exists
2160 2243 2 then return LIB$SIGNAL(UAF$_NAFDNE);
2161 2244 2
2162 2245 2
2163 2246 2 Retrieve remote name in node::remotename form
2164 2247 2
2165 2248 2 cli$get_value (sd_token1, tokendsc);
2166 2249 2
2167 2250 2
2168 2251 2 Verify proper format
```


remove_proxy - remove a proxy record

```
2169 2252 2 !
2170 2253 2 if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
2171 2254 2 then return;
2172 2255 2
2173 2256 2 !
2174 2257 2 ! Copy into appropriate fields
2175 2258 2
2176 2259 2 ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
2177 2260 2 ch$copy (.remuser_len, .remuser_ptr, ' ', naf$s_remuser, netbuf[naf$t_remuser]);
2178 2261 2
2179 2262 2 nafrab[rab$l_rop] = rab$m_rlk;
2180 2263 2
2181 2264 2 success = get_proxy_record ();
2182 2265 2
2183 2266 2 !
2184 2267 2 ! Delete the record
2185 2268 2
2186 2269 2 if .success
2187 2270 2 then
2188 2271 3 begin
2189 2272 4 if rmsbad ($delete (rab = nafrab))
2190 2273 3 then
2191 2274 3 LIB$SIGNAL(UAF$_REMERR, 0, .rmserr)
2192 2275 3 else
2193 2276 4 begin
2194 2277 4 security_audit (nsa$k_recid_netuaf_del);
2195 2278 4 LIB$SIGNAL(UAF$_PREMSG);
2196 2279 3 end;
2197 2280 3 end
2198 2281 2 else
2199 2282 2 LIB$SIGNAL(UAF$_REMERR);
2200 2283 2
2201 2284 2 netuaf_modified = true;
2202 2285 1 end;
```

			01FC 00000	.ENTRY REMOVE_PROXY, Save R2,R3,R4,R5,R6,R7,R8	2196
58	00000000G	8F	D0 00002	MOVL #UAF\$_REMERR, R8	
57	00000000G	00	9E 00009	MOVAB LIB\$SIGNAL, R7	
56	00000000'	00	9E 00010	MOVAB RMSERR, R6	
5E		10	C2 00017	SUBL2 #16, SP	
0A	F8	A6	E8 0001A	BLBS NETUAF_EXISTS, 1\$	2242
	00000000G	8F	DD 0001E	PUSHL #UAF\$_NAFDNE	2243
67		01	FB 00024	CALLS #1, LIB\$SIGNAL	
			04 00027	RET	
	E8	A6	9F 00028 1\$:	PUSHAB TOKENDSC	2248
	00000000'	00	9F 0002B	PUSHAB SD_TOKEN1	
00000000G	00	02	FB 00031	CALLS #2, CLISGET_VALUE	
		5E	DD 00038	PUSHL SP	2253
	08	AE	9F 0003A	PUSHAB REMUSER_PTR	
	10	AE	9F 0003D	PUSHAB NODE_LEN	
	18	AE	9F 00040	PUSHAB NODE_PTR	
FA17	CF	04	FB 00043	CALLS #4, REMOTE_PARSE	
	63	50	E9 00048	BLBC R0, 6\$	

UAFMAIN
V04-000

remove_proxy - remove a proxy record

J 16
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 Page 81
(13)

20	20	0C	BE	08	AE	2C	0004B	MOV C5	NODE_LEN, @NODE_PTR, #32, #32, NETBUF	:	2259
				058C	C6		00052			:	
20	20	04	BE		6E	2C	00055	MOV C5	REMUSER_LEN, @REMUSER_PTR, #32, #32, -	:	2260
				05AC	C6		0005B		NETBUF+32	:	
	0638	C6	00080000		8F	D0	0005E	MOVL	#524288, NAFRAB+4	:	2262
	00000000V	00			00	FB	00067	CALLS	#0, GET_PROXY_RECORD	:	2264
		31			50	E9	0006E	BLBC	SUCCESS, 3\$:	2269
			0634		C6	9F	00071	PUSHAB	NAFRAB	:	2272
	00000000G	00			01	FB	00075	CALLS	#1, SYS\$DELETE	:	
		66			50	D0	0007C	MOVL	R0, RMSERR	:	
		0B			50	E8	0007F	BLBS	R0, 2\$:	
					66	DD	00082	PUSHL	RMSERR	:	2274
					7E	D4	00084	CLRL	-(SP)	:	
					58	DD	00086	PUSHL	R8	:	
		67			03	FB	00088	CALLS	#3, LIB\$SIGNAL	:	
					1A	11	0008B	BRB	5\$:	
			00020003		8F	DD	0008D	PUSHL	#131075	:	2277
	00000000V	00			01	FB	00093	CALLS	#1, SECURITY_AUDIT	:	
			00000000G		8F	DD	0009A	PUSHL	#UAF\$_PREMSG	:	2278
					02	11	000A0	BRB	4\$:	
					58	DD	000A2	PUSHL	R8	:	2282
		67			01	FB	000A4	CALLS	#1, LIB\$SIGNAL	:	
	00000000'	00			01	D0	000A7	MOVL	#1, NETUAF_MODIFIED	:	2284
					04	000AE	6\$:	RET		:	2285

; Routine Size: 175 bytes, Routine Base: \$CODE\$ + 0BDD

rename_uaf - rename user record

```
2204 2286 1 %sbttl 'rename_uaf - rename user record'
2205 2287 1 global routine rename_uaf : novalue =
2206 2288 2 begin
2207 2289 2
2208 2290 2 ++
2209 2291 2
2210 2292 2 FUNCTIONAL DESCRIPTION:
2211 2293 2
2212 2294 2 Effect a user authorization record rename, by
2213 2295 2 performing a COPY and a REMOVE operation.
2214 2296 2
2215 2297 2 INPUTS:
2216 2298 2
2217 2299 2 none
2218 2300 2
2219 2301 2 IMPLICIT INPUTS:
2220 2302 2
2221 2303 2 none
2222 2304 2
2223 2305 2 OUTPUTS:
2224 2306 2
2225 2307 2 none
2226 2308 2
2227 2309 2 IMPLICIT OUTPUTS:
2228 2310 2
2229 2311 2 none
2230 2312 2
2231 2313 2 SIDE EFFECTS:
2232 2314 2
2233 2315 2 A user authorization record is copied with a newname; the
2234 2316 2 original record is then deleted.
2235 2317 2 This routine also causes updating of any NETUAF entries for the
2236 2318 2 local user which is to be renamed.
2237 2319 2
2238 2320 2 --
2239 2321 2
2240 2322 2 uaf$gl_ctlmsk[uaf$v_rename] = true;
2241 2323 2
2242 2324 2 Copy the new authorization record
2243 2325 2
2244 2326 2 if (copy_uaf ())
2245 2327 2 then
2246 2328 2 begin
2247 2329 2
2248 2330 2 Remove the old authorization record
2249 2331 2
2250 2332 2 remove_uaf ();
2251 2333 2 LIB$SIGNAL(UAF$_RENMSG);
2252 2334 2
2253 2335 2 Because passwords are folded in with the username, passwords for
2254 2336 2 RENAMED records will no longer work--warn the user
2255 2337 2
2256 2338 2 if .pwd_flag
2257 2339 2 then LIB$SIGNAL(UAF$_DEFPWD);
2258 2340 2
2259 2341 2
2260 2342 2 Modify the rights data base if one exists
```


rename_uaf - rename user record

```

: 2261      2343 3 !
: 2262      2344 4   if (cli$present ( sd_modify_identfier ) and
: 2263      2345 4       .rdb_exists )
: 2264      2346 3   then
: 2265      2347 4       begin
: 2266      2348 4         local
: 2267      2349 4           status      : long,
: 2268      2350 4           old_name_buff : vector [kgb$s_name, byte],
: 2269      2351 4           old_name_desc : statdesc ;
: 2270      2352 4           new_name_desc : statdesc ;
: 2271      2353 4
: 2272      2354 4           old_name_desc[length] = kgb$s_name ;
: 2273      2355 4           old_name_desc[pointer] = old_name_buff ;
: 2274      2356 4           new_name_desc[length] = .newuser[en] ;
: 2275      2357 4           new_name_desc[pointer] = newusername ;
: 2276      2358 4
: 2277      2359 4           uaf$find_uic ( ) ;      ! Build Identifier from the recbuf
: 2278      2360 4
: 2279      2361 4           !
: 2280      2362 4           ! Find the ascii name
: 2281      2363 4           !
: 2282      2364 4           status = $idtoasc ( id      = .ident,
: 2283      2365 4               namlen = old_name_desc[length],
: 2284      2366 4               nambuf = old_name_desc ) ;
: 2285      2367 4           if not .status
: 2286      2368 4           then LIB$SIGNAL(UAF$_RDBMDFYERRU, 2,
: 2287      2369 4               .ident[uic$v_group],
: 2288      2370 4               .ident[uic$v_member], .status)
: 2289      2371 4           else
: 2290      2372 5             begin
: 2291      2373 5               status = $mod_ident ( id      = .ident,
: 2292      2374 5                   new_name = new_name_desc ) ;
: 2293      2375 5
: 2294      2376 5               if not .status
: 2295      2377 5               then LIB$SIGNAL(UAF$_RDBMDFYERR, 1, old_name_desc, .status)
: 2296      2378 5               else
: 2297      2379 5                 begin
: 2298      2380 6                   rightslist_modified = true ;
: 2299      2381 6                   LIB$SIGNAL(UAF$_RDBMDFYMSG, 1, old_name_desc);
: 2300      2382 6                   end ;
: 2301      2383 5                 end ;
: 2302      2384 4               end ;
: 2303      2385 3             end ;
: 2304      2386 3
: 2305      2387 2           end;
: 2306      2388 2
: 2307      2389 2           ! Reset flags
: 2308      2390 2           !
: 2309      2391 2           rename_ph2 = false;
: 2310      2392 2           uaf$gl_ctlmsk[uaf$v_rename] = false;
: 2311      2393 2
: 2312      2394 1         end;
```


			007C 00000	.ENTRY	RENAME UAF, Save R2,R3,R4,R5,R6	: 2287
	56	00000000'	00 9E 00002	MOVAB	NEWUSERLEN, R6	
	55	00000000G	00 9E 00009	MOVAB	IDENT, R5	
	54	00000000'	00 9E 00010	MOVAB	UAF\$GL_CTLMSK, R4	
	53	00000000G	00 9E 00017	MOVAB	LIB\$SIGNAL, R3	
	5E		30 C2 0001E	SUBL2	#48, SP	
	64		01 88 00021	BISB2	#1, UAF\$GL_CTLMSK	: 2322
FA08	CF		00 FB 00024	CALLS	#0, COPY_UAF	: 2326
	29		50 E9 00029	BLBC	R0, 2\$	
FE96	CF		00 FB 0002C	CALLS	#0, REMOVE UAF	: 2332
		00000000G	8F DD 00031	PUSHL	#UAF\$ RENMSG	: 2333
	63		01 FB 00037	CALLS	#1, LIB\$SIGNAL	
	09	06F4	C4 E9 0003A	BLBC	PWD FLAG, 1\$: 2338
		0000C000G	8F DD 0003F	PUSHL	#UAF\$ DEFPWD	: 2339
	63		01 FB 00045	CALLS	#1, LIB\$SIGNAL	
		00000000'	00 9F 00048	PUSHAB	SD_MODIFY IDENTIFIER	: 2344
00000000G	00		01 FB 0004E	CALLS	#1, CLISP\$PRESENT	
	60		50 E9 00055	BLBC	R0, 3\$	
	5C	70	A4 E9 00058	BLBC	RDB EXISTS, 3\$: 2345
08	AE	010E0000	8F D0 0005C	MOVL	#17894720, OLD_NAME_DESC	: 2351
		0C	AE D4 00064	CLRL	OLD_NAME_DESC+4	
	6E	010E0000	8F D0 00067	MOVL	#17894720, NEW_NAME_DESC	: 2352
		04	AE D4 0006E	CLRL	NEW_NAME_DESC+4	
	08	AE	20 B0 00071	MOVW	#32, OLD_NAME_DESC	: 2354
	0C	AE	10 AE 9E 00075	MOVAB	OLD_NAME_BUFF, OLD_NAME_DESC+4	: 2355
	6E		66 B0 0007A	MOVW	NEWUSERLEN, NEW_NAME_DESC	: 2356
04	AE	04	A6 9E 0007D	MOVAB	NEWUSERNAME, NEW_NAME_DESC+4	: 2357
00000000G	00		00 FB 00082	CALLS	#0, UAF\$FIND_UIC	: 2359
			7E 7C 00089	CLRQ	-(SP)	: 2366
			7E D4 0008B	CLRL	-(SP)	
		14	AE 9F 0008D	PUSHAB	OLD_NAME_DESC	
		18	AE 9F 00090	PUSHAB	OLD_NAME_DESC	
			65 DD 00093	PUSHL	IDENT	
00000000G	00		06 FB 00095	CALLS	#6, SYSS\$IDTOASC	
	52		50 D0 0009C	MOVL	R0, STATUS	
	18		52 E8 0009F	BLBS	STATUS, 4\$: 2367
			52 DD 000A2	PUSHL	STATUS	: 2370
	7E		65 3C 000A4	MOVZWL	IDENT, -(SP)	
7E	0E		00 EF 000A7	EXTZV	#0, #14, IDENT+2, -(SP)	: 2369
			02 DD 000AD	PUSHL	#2	: 2368
		00000000G	8F DD 000AF	PUSHL	#UAF\$ RDBMDFYERRU	
	63		05 FB 000B5	CALLS	#5, LIB\$SIGNAL	
			3A 11 000B8	BRB	6\$	
			7E D4 000BA	CLRL	-(SP)	: 2375
		04	AE 9F 000BC	PUSHAB	NEW_NAME_DESC	
			7E 7C 000BF	CLRQ	-(SP)	
			65 DD 000C1	PUSHL	IDENT	
00000000G	00		05 FB 000C3	CALLS	#5, SYSS\$MOD_IDENT	
	52		50 D0 000CA	MOVL	R0, STATUS	
	12		52 E8 000CD	BLBS	STATUS, 5\$: 2377
			52 DD 000D0	PUSHL	STATUS	: 2378
		0C	AE 9F 000D2	PUSHAB	OLD_NAME_DESC	
			01 DD 000D5	PUSHL	#1	
		00000000G	8F DD 000D7	PUSHL	#UAF\$ RDBMDFYERR	
	63		04 FB 000DD	CALLS	#4, LIB\$SIGNAL	
			12 11 000E0	BRB	6\$	
78	A4		01 90 000E2	MOVW	#1, RIGHTSLIST_MODIFIED	: 2381

UAFMAIN
V04-000

rename_uaf - rename user record

B 1
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1

Page 85
(14)

	08	AE	9F	000E6	PUSHAB	OLD_NAME_DESC	:	2382
		01	DD	000E9	PUSHL	#1	:	
	00000000G	8F	DD	000EB	PUSHL	#UAF\$_RDBMDFYMSG	:	
63		03	FB	000F1	CALLS	#3, LTBSSIGNAL	:	
	D8	A6	94	000F4	CLRB	RENAME_PH2	:	2391
64		01	8A	000F7	BICB2	#1, UAF\$GL_CTLMSK	:	2392
			04	000FA	RET		:	2394

; Routine Size: 251 bytes, Routine Base: \$CODE\$ + 0C8C


```
2314 2395 1 %sbttl 'adjust_proxy - implicitly remove/update proxy record'
2315 2396 1 global routine adjust_proxy (remove) : novalue =
2316 2397 2 begin
2317 2398 2
2318 2399 2 ++
2319 2400 2
2320 2401 2 FUNCTIONAL DESCRIPTION:
2321 2402 2
2322 2403 2 This routine performs the operations implicitly indicated by
2323 2404 2 REMOVE or RENAME operations on SYSUAF.DAT. If a SYSUAF.DAT
2324 2405 2 record is removed, then any corresponding NETUAF.DAT entries must
2325 2406 2 also be deleted. If a SYSUAF.DAT record is renamed, then any
2326 2407 2 corresponding NETUAF.DAT entries must be updated.
2327 2408 2
2328 2409 2 INPUTS:
2329 2410 2
2330 2411 2 remove - a flag which indicates that the NETUAF.DAT record
2331 2412 2 should be removed. If false, then the record
2332 2413 2 should be updated.
2333 2414 2
2334 2415 2 OUTPUTS:
2335 2416 2
2336 2417 2 none
2337 2418 2
2338 2419 2 IMPLICIT INPUTS:
2339 2420 2
2340 2421 2 olduserlen - the old username length for a RENAME
2341 2422 2 oldusername - the old username string for a RENAME
2342 2423 2 TOKENPTR - the new username for RENAME, the removed username for REMOVE
2343 2424 2 TOKENLEN - " " length " " , " " length " "
2344 2425 2
2345 2426 2 IMPLICIT OUTPUTS:
2346 2427 2
2347 2428 2 none
2348 2429 2
2349 2430 2 SIDE EFFECTS:
2350 2431 2
2351 2432 2 A record is removed/updated in NETUAF.DAT
2352 2433 2
2353 2434 2 --
2354 2435 2
2355 2436 2 local
2356 2437 2 modified: initial(false),
2357 2438 2 status;
2358 2439 2
2359 2440 2
2360 2441 2 Set access to sequential because we need to check for
2361 2442 2 multiple entries
2362 2443 2
2363 2444 2 nafrab[rab$l_rop] = rab$m_rlk; ! Lock records for writing
2364 2445 2 nafrab[rab$b_rac] = rab$c_seq;
2365 2446 2 $rewind (rab = nafrab);
2366 2447 2
2367 2448 2
2368 2449 2 Until EOF...
2369 2450 2
2370 2451 2 while status = get_proxy_record ()
```



```
2371 2452 2 do
2372 2453     begin
2373 2454     local
2374 2455         locuser_len,
2375 2456         blank_ptr;
2376 2457
2377 2458     Find end of user name...
2378 2459
2379 2460     If not found in 12 characters, it must be the full 12
2380 2461     characters in length
2381 2462
2382 2463     if ch$fail (blank_ptr = ch$find_ch (naf$s_localuser,
2383 2464     netbuf[naf$t_localuser], ' '))
2384 2465     then
2385 2466         locuser_len = naf$s_localuser
2386 2467     else
2387 2468         locuser_len = .blank_ptr - netbuf[naf$t_localuser];
2388 2469
2389 2470     If this is a record to be removed, delete it
2390 2471
2391 2472     if .remove
2392 2473     then
2393 2474         begin
2394 2475         if .tokenlen eql .locuser_len
2395 2476         and ch$eql (.tokenlen, .tokenptr, .locuser_len, netbuf[naf$t_localuser])
2396 2477         then
2397 2478             begin
2398 2479             netuaf_modified = true;
2399 2480             $delete (rab = nafrab);
2400 2481             security_audit (nsa$k_recid_netuaf_del);
2401 2482             end;
2402 2483         end
2403 2484
2404 2485     otherwise, change the localusername field to reflect the
2405 2486     new username in SYSUAF.DAT
2406 2487
2407 2488     else
2408 2489         begin
2409 2490         modified = true;
2410 2491         if .olduserlen eql .locuser_len
2411 2492         and ch$eql (.olduserlen, oldusername,
2412 2493         .locuser_len, netbuf[naf$t_localuser])
2413 2494         then
2414 2495             begin
2415 2496             ch$copy (uaf$s_username, recbuf[uaf$t_username], ' ',
2416 2497             naf$s_localuser, netbuf[naf$t_localuser]);
2417 2498             $update (rab = nafrab);
2418 2499             netuaf_modified = true;
2419 2500             security_audit (nsa$k_recid_netuaf_mod, oldusername);
2420 2501             end;
2421 2502         end;
2422 2503     end;
2423 2504
2424 2505     if .modified then
2425 2506
2426 2507
2427 2508
```


: 2428
: 2429
: 2430
: 2431
: 2432
: 2433
: 24342509 2 LIB\$SIGNAL(UAF\$_ZZPRACREN, 2, .olduserlen, oldusername);
2510 2
2511 2
2512 2 Return to keyed access
2513 2
2514 2 nafrab[ra\$b_rac] = ra\$b_key;
2515 1 end;

				07FC 00000	.EXTRN	SYSS\$REWIND	
					.ENTRY	ADJUST_PROXY, Save R2,R3,R4,R5,R6,R7,R8,R9,-	2396
						R10	
					MOVAB	SECURITY_AUDIT, R10	
					MOVAB	OLDUSERNAME, R9	
					MOVAB	NETBUF+64, R8	
					CLRL	MODIFIED	2397
	6C	A8	00080000	8F	DO	#524288, NAFRAB+4	2444
			0086	C8	94	NAFRAB+30	2445
			68	A8	9F	NAFRAB	2446
	00000000G	00		01	FB	#1, SYSS\$REWIND	
	00000000V	00		00	FB	#0, GET_PROXY_RECORD	2451
		57		50	DO	R0, STATUS	
		03		57	E8	STATUS, 2\$	
				0081	31	8\$	
	68	20		20	3A	#32, #32, NETBUF+64	2466
				02	12	3\$	
				51	D4	R1	
				51	D5	BLANK_PTR	
				05	12	4\$	
		50		20	DO	#32, LOCUSER_LEN	2468
				07	11	5\$	
		52		68	9E	NETBUF+64, R2	2470
	50	51		52	C3	R2, BLANK_PTR, LOCUSER_LEN	
		30	04	AC	E9	REMOVE, 7\$	2478
		51	FA1C	C8	3C	TOKENLEN, R1	
		50		51	D1	R1, LOCUSER_LEN	
				CA	12	1\$	
		52	FA20	C8	DO	TOKENPTR, R2	2479
50		62		51	2D	R1, (R2), #0, LOCUSER_LEN, NETBUF+64	
				68			
				BD	12	1\$	
	F4	A9		01	DO	#1, NETUAF_MODIFIED	2482
			68	A8	9F	NAFRAB	2483
	00000000G	00		01	FB	#1, SYSS\$DELETE	
			00020003	8F	DD	#131075	2484
		6A		01	FB	#1, SECURITY_AUDIT	
				A4	11	1\$	2475
		56		01	DO	#1, MODIFIED	2493
		51	FC	A9	DO	OLDUSERLEN, R1	2494
		50		51	D1	R1, LOCUSER_LEN	
				98	12	1\$	
50		00		51	2D	R1, OLDUSERNAME, #0, LOCUSER_LEN, NETBUF+64	2496
				68			
				90	12	1\$	
	68	FA40	C8	20	28	#32, RECBUF+4, NETBUF+64	2500

UAFMAIN
V04-000

adjust_proxy - implicitly remove/update proxy r

F 1
16-Sep-1984 02:16:54 VAX-11 Bliss-32 V4.0-742 Page 89
14-Sep-1984 13:21:22 DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (15)

00000000G	00	68	A8	9F	000A5	PUSHAB	NAFRAB	:	2501
F4	A9		01	FB	000A8	CALLS	#1, SYSSUPDATE	:	
			01	DD	000AF	MOVL	#1, NETUAF_MODIFIED	:	2502
		00030003	59	DD	000B3	PUSHL	R9	:	2503
	6A		8F	DD	000B5	PUSHL	#196611	:	
			02	FB	000BB	CALLS	#2, SECURITY_AUDIT	:	
	14		C9	11	000BE	BRB	6\$:	2451
			56	E9	000C0	BLBC	MODIFIED, 9\$:	2508
			59	DD	000C3	PUSHL	R9	:	2509
		FC	A9	DD	000C5	PUSHL	OLDUSERLEN	:	
			02	DD	000C8	PUSHL	#2	:	
		00000000G	8F	DD	000CA	PUSHL	#UAF\$_ZZPRACREN	:	
00000000G	00		04	FB	000D0	CALLS	#4, LTB\$SIGNAL	:	
0086	C8		01	90	000D7	MOVB	#1, NAFRAB+30	:	2514
			04	000DC	RET			:	2515

; Routine Size: 221 bytes, Routine Base: \$CODE\$ + 0D87

default_uaf - change default record

```
2436 2516 1 %sbttl 'default_uaf - change default record'
2437 2517 1 global routine default_uaf : novalue =
2438 2518 2 begin
2439 2519 3
2440 2520 3 ++
2441 2521 3
2442 2522 3 FUNCTIONAL DESCRIPTION:
2443 2523 3
2444 2524 3     Change a default value in the default record.
2445 2525 3
2446 2526 3 INPUTS:
2447 2527 3
2448 2528 3     none
2449 2529 3
2450 2530 3 IMPLICIT INPUTS:
2451 2531 3
2452 2532 3     none
2453 2533 3
2454 2534 3 OUTPUTS:
2455 2535 3
2456 2536 3     none
2457 2537 3
2458 2538 3 IMPLICIT OUTPUTS:
2459 2539 3
2460 2540 3     none
2461 2541 3
2462 2542 3 ROUTINE VALUE:
2463 2543 3
2464 2544 3     none
2465 2545 3
2466 2546 3 SIDE EFFECTS:
2467 2547 3
2468 2548 3     none
2469 2549 3 --
2470 2550 3
2471 2551 3
2472 2552 3
2473 2553 3 Locate default record and load it into RECBUF
2474 2554 3 if not already there (via an indirect MODIFY DEFAULT)
2475 2555 3
2476 2556 3
2477 2557 3 if not .mod_default
2478 2558 3 then
2479 2559 3     begin
2480 2560 3         if not locate_user (.defuser<0,8>, defuser+1, true)
2481 2561 3         then
2482 2562 3             begin
2483 2563 3                 LIB$SIGNAL(UAF$_DEFERR, 0, .rmserr);
2484 2564 3                 return;
2485 2565 3             end;
2486 2566 3         end;
2487 2567 3
2488 2568 3 The encrypted password field of the DEFAULT record can not be propagated
2489 2569 3 to another user, because the encryption algorithm takes the user name as
2490 2570 3 an input. The user is merely warned that this qualifier has no effect.
2491 2571 3
2492 2572 3
```


default_uaf - change default record

```
2493 2573 2 pwd_flag = true;
2494 2574 2
2495 2575 2
2496 2576 2 Update values supplied and exit if errors.
2497 2577 2
2498 2578 2
2499 2579 2 if update_record ()
2500 2580 2 then
2501 2581 2     begin
2502 2582 2         if not .pwd_flag
2503 2583 2         then LIB$SIGNAL(UAF$_NODEFPWD);
2504 2584 2
2505 2585 2
2506 2586 2 Now write the modified record back into the DEFAULT_RECORD buffer.
2507 2587 2
2508 2588 2     default_size = .uafrab[raab$w_rsz];
2509 2589 2     ch$move(.default_size, recbuf, default_record);
2510 2590 2
2511 2591 2
2512 2592 2 Update the default record in the file. Note that file has changed.
2513 2593 2
2514 2594 2     if not rmsok ($update (rab = uafrab))
2515 2595 2     then
2516 2596 2         LIB$SIGNAL(UAF$_MDFYERR, 0, .rmserr)
2517 2597 2     else
2518 2598 2         begin
2519 2599 2             modify_flag = true;
2600 2600 2             security_audit (nsa$k_recid_sysuaf_mod);
2601 2601 2             if not .mod_default
2602 2602 2             then
2603 2603 2                 LIB$SIGNAL(UAF$_MDFYMSG)
2604 2604 2             else
2605 2605 2                 mod_default = false;
2606 2606 2             end;
2607 2607 2         end
2608 2608 2
2609 2609 2 else
2610 2610 2     $release (rab = uafrab);
2611 2611 2
2612 2612 2 end;
```

! unlock the record

```
01FC 00000
58 00000000G 00 9E 00002
57 00000000' 00 9E 00009
56 00000000' 00 9E 00010
25 00000000' 67 E8 00017
01 DD 0001A
00 9F 0001C
7E 00000000' 00 9A 00022
00 03 FB 00029
0C 50 E8 00030
66 DD 00033
7E D4 00035
```

```
.ENTRY DEFAULT UAF, Save R2,R3,R4,R5,R6,R7,R8
MOVAB LIB$SIGNAL, R8
MOVAB MOD_DEFAULT, R7
MOVAB RMSERR, R6
BLBS MOD_DEFAULT, 1$
PUSHL #1
PUSHAB DEFUSER+1
MOVZBL DEFUSER, -(SP)
CALLS #3, LOCATE_USER
BLBS R0, 1$
PUSHL RMSERR
CLRL -(SP)
```

```
: 2517
:
:
: 2557
: 2560
:
: 2563
:
```


default_uaf - change default record

I 1
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 92
(16)

		00000000G	8F	DD	00037	PUSHL	#UAF\$_DEFERR	:	
			48	11	0003D	BRB	3\$:	
	0680	C6	01	D0	0003F	1\$:	MOVL	#1, PWD_FLAG	2573
	00000000G	00	00	FB	00044		CALLS	#0, UPDATE_RECORD	2579
		5E	50	E9	0004B		BLBC	R0, 6\$	
		09	C6	E8	0004E		BLBS	PWD_FLAG, 2\$	2582
			8F	DD	00053		PUSHL	#UAF\$ NODEFPWD	2583
		68	01	FB	00059		CALLS	#1, LIB\$SIGNAL	
045C	C7	0458	C7	B0	0005C	2\$:	MOVW	UAFRAB+34, DEFAULT_SIZE	2588
		08	A6	28	00063		MOVC3	DEFAULT_SIZE, RECBUF, DEFAULT_RECORD	2589
			C6	9F	0006C		PUSHAB	UAFRAB	2594
	00000000G	00	01	FB	00070		CALLS	#1, SYSSUPDATE	
		66	50	D0	00077		MOVL	R0, RMSERR	
		0E	50	E8	0007A		BLBS	R0, 4\$	
			66	DD	0007D		PUSHL	RMSERR	2596
			7E	D4	0007F		CLRL	-(SP)	
		00000000G	8F	DD	00081		PUSHL	#UAF\$ MDFYERR	
		68	03	FB	00087	3\$:	CALLS	#3, LIB\$SIGNAL	
				04	0008A		RET		
	04	A7	01	D0	0008B	4\$:	MOVL	#1, MODIFY_FLAG	2599
			8F	DD	0008F		PUSHL	#196610	2600
	00000000V	00	01	FB	00095		CALLS	#1, SECURITY_AUDIT	
		0A	67	E8	0009C		BLBS	MOD_DEFAULT, 5\$	2601
			8F	DD	0009F		PUSHL	#UAF\$ MDFYMSG	2603
		68	01	FB	000A5		CALLS	#1, LIB\$SIGNAL	
				04	000AB		RET		
			67	D4	000A9	5\$:	CLRL	MOD_DEFAULT	2605
				04	000AB		RET		2579
	00000000G	00	C6	9F	000AC	6\$:	PUSHAB	UAFRAB	2610
			01	FB	000B0		CALLS	#1, SYSSRELEASE	
				04	000B7		RET		2612

; Routine Size: 184 bytes, Routine Base: \$CODE\$ + 0E64


```
2534 2613 1 %sbttl 'list_proxy - list proxy entries in NETUAF.LIS'
2535 2614 1 global routine list_proxy : novalue =
2536 2615 2 begin
2537 2616 2
2538 2617 2 ++
2539 2618 2
2540 2619 2 FUNCTIONAL DESCRIPTION:
2541 2620 2
2542 2621 2 This routine produces a listing of the entire NETUAF.DAT file
2543 2622 2 in NETUAF.LIS.
2544 2623 2
2545 2624 2 INPUTS:
2546 2625 2
2547 2626 2 none
2548 2627 2
2549 2628 2 OUTPUTS:
2550 2629 2
2551 2630 2 none
2552 2631 2
2553 2632 2 SIDE EFFECTS:
2554 2633 2
2555 2634 2 A listing file is produced
2556 2635 2
2557 2636 2 --
2558 2637 2
2559 2638 2 local
2560 2639 2 action;
2561 2640 2
2562 2641 2
2563 2642 2 Make sure NETUAF.DAT exists
2564 2643 2
2565 2644 2 if not .netuaf exists
2566 2645 2 then return LIB$SIGNAL(UAF$_NAFDNE);
2567 2646 2
2568 2647 2
2569 2648 2 Set up the listing file FAB and connect RAB
2570 2649 2
2571 2650 2 nlstfab[fab$_v_dlt] = false;
2572 2651 2 if rmsbad ($create (fab = nlstfab))
2573 2652 2 then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
2574 2653 2
2575 2654 2 if rmsbad ($connect (rab = nlstrab))
2576 2655 2 then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
2577 2656 2
2578 2657 2
2579 2658 2 Set action routine and rab pointer
2580 2659 2
2581 2660 2 wild_netuser = true;
2582 2661 2 match_tokenlen = 1;
2583 2662 2 match_token = %c'i;
2584 2663 2 rabptr = nlstrab;
2585 2664 2 action = display_proxy;
2586 2665 2 header_flag = true;
2587 2666 2 nafrab[rab$_l_rop] = rab$_m_rrl or rab$_m_nlk;
2588 2667 2
2589 2668 2 LIB$SIGNAL(UAF$_LSTMSG1);
2590 2669 2
```


.ENTRY	LIST PROXY, Save R2,R3,R4,R5,R6	: 2614
MOVL	#UAF\$ LSTERR, R6	: :
MOVAB	LIB\$SIGNAL, R5	: :
MOVAB	NLSTRAB, R4	: :
MOVAB	RMSERR, R3	: :
BLBS	NETUAF EXISTS, 1\$: 2644
PUSHL	#UAF\$ NAFDNE	: 2645
CALLS	#1, LIB\$SIGNAL	: :
RET		: :
BICB2	#128, NLSTFAB+5	: 2650
PUSHAB	NLSTFAB	: 2651
CALLS	#1, SYSS\$CREATE	: :
MOVL	R0, RMSERR	: :
BLBC	R0, 2\$: :
PUSHL	R4	: 2654
CALLS	#1, SYSS\$CONNECT	: :
MOVL	R0, RMSERR	: :
BLBS	R0, 3\$: :
PUSHL	RMSERR	: 2655
CLRL	-(SP)	: :
PUSHL	R6	: :
CALLS	#3, LIB\$SIGNAL	: :
RET		: :
MOVL	#1, WILD NETUSER	: 2660
MOVL	#1, MATCH TOKENLEN	: 2661
MOVL	#42, MATCH TOKEN	: 2662
MOVAB	NLSTRAB, RABPTR	: 2663
MOVAB	DISPLAY PROXY, ACTION	: 2664
MOVL	#1, HEADER FLAG	: 2665
MOVL	#1048584, NAFRAB+4	: 2666

UAFMAIN
V04-000

list_proxy - list proxy entries in NETUAF.LIS

L 1
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1

Page 95
(17)

		00000000G	8F	DD	0007F	PUSHL	#UAF\$ LSTMSG1	:	2668
	65		01	FB	00085	CALLS	#1, LIB\$SIGNAL	:	
			52	DD	00088	PUSHL	ACTION	:	2673
00000000V	00		01	FB	0008A	CALLS	#1, LOCATE_PROXY	:	
	63		50	DO	00091	MOVL	R0, RMSERR	:	
	1F		50	E8	00094	BLBS	R0, 5\$:	
	50		63	DO	00097	MOVL	RMSERR, R0	:	2676
000182B2	8F		50	D1	0009A	CMPL	R0, #98994	:	
			08	12	000A1	BNEQ	4\$:	
		00000000G	8F	DD	000A3	PUSHL	#UAF\$_BADSPC	:	2678
			11	11	000A9	BRB	6\$:	
			50	DD	000AB	PUSHL	R0	:	2680
			7E	D4	000AD	CLRL	-(SP)	:	
	65		56	DD	000AF	PUSHL	R6	:	
			03	FB	000B1	CALLS	#3, LIB\$SIGNAL	:	2673
			09	11	000B4	BRB	7\$:	2683
		00000000G	8F	DD	000B6	PUSHL	#UAF\$ NETLSTMSG	:	
	65		01	FB	000BC	CALLS	#1, LIB\$SIGNAL	:	2688
			54	DD	000BF	PUSHL	R4	:	
00000000G	00		01	FB	000C1	CALLS	#1, SYSS\$DISCONNECT	:	2689
		B0	A4	9F	000C8	PUSHAB	NLSTFAB	:	
00000000G	00		01	FB	000CB	CALLS	#1, SYSS\$CLOSE	:	2691
			04	000D2	RET			:	

; Routine Size: 211 bytes, Routine Base: \$CODE\$ + 0F1C

list_uaf - list file routine

```
: 2614      2692 1 %sbttl 'list_uaf - list file routine'
: 2615      2693 1 global routine list_uaf : novalue =
: 2616      2694 2 begin
: 2617      2695 2
: 2618      2696 2 ++
: 2619      2697 2
: 2620      2698 2 FUNCTIONAL DESCRIPTION:
: 2621      2699 2
: 2622      2700 2     Display the specified users in a file named 'SYSUAF.LIS'.
: 2623      2701 2
: 2624      2702 2 INPUTS:
: 2625      2703 2
: 2626      2704 2     none
: 2627      2705 2
: 2628      2706 2 IMPLICIT INPUTS:
: 2629      2707 2
: 2630      2708 2     none
: 2631      2709 2
: 2632      2710 2 OUTPUTS:
: 2633      2711 2
: 2634      2712 2     none
: 2635      2713 2
: 2636      2714 2 IMPLICIT OUTPUTS:
: 2637      2715 2
: 2638      2716 2     none
: 2639      2717 2
: 2640      2718 2 ROUTINE VALUE:
: 2641      2719 2
: 2642      2720 2     none
: 2643      2721 2
: 2644      2722 2 SIDE EFFECTS:
: 2645      2723 2
: 2646      2724 2     none
: 2647      2725 2 --
: 2648      2726 2
: 2649      2727 2 local
: 2650      2728 2     action;
: 2651      2729 2
: 2652      2730 2
: 2653      2731 2 Obtain the user specification. This sets wildcard flags and initializes
: 2654      2732 2 the appropriate key in RECBUF.
: 2655      2733 2
: 2656      2734 2
: 2657      2735 2 if not parse_wild (sd_token1,true)          ! Null string defaults to *
: 2658      2736 2 then return;
: 2659      2737 2
: 2660      2738 2
: 2661      2739 2 Obtain qualifiers. This determines which display should be used.
: 2662      2740 2
: 2663      2741 2 full_flag = false;
: 2664      2742 2 brief_flag = true;
: 2665      2743 2
: 2666      2744 2 if cli$present (sd_full) or (not cli$present (sd_brief))
: 2667      2745 2 then
: 2668      2746 2     begin
: 2669      2747 2         brief_flag = false;
: 2670      2748 2         full_flag = true;
```


list_uaf - list file routine

```
: 2671      2749 2      end;
: 2672      2750 2
: 2673      2751 2
: 2674      2752 2      Create the listing file.
: 2675      2753 2
: 2676      2754 2
: 2677      2755 2      lstfab[fab$v_dlt] = false;          ! initialize DLT bit
: 2678      2756 2      if rmsbad ($create (fab = lstfab))
: 2679      2757 2      then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
: 2680      2758 2
: 2681      2759 2      if rmsbad ($connect (rab = lstrab))
: 2682      2760 2      then return LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
: 2683      2761 2
: 2684      2762 2
: 2685      2763 2      Request a header record for the file and aim RABPTR at our RAB.
: 2686      2764 2
: 2687      2765 2
: 2688      2766 2      header_flag = true;
: 2689      2767 2      rabptr = lstrab;
: 2690      2768 2      found_match = false;
: 2691      2769 2      uafra[ra$b_l_rop] = rab$m_rrl or rab$m_nlk;
: 2692      2770 2
: 2693      2771 2      Flag the list operation for the rights data base routines .
: 2694      2772 2
: 2695      2773 2      rdb_list_flag = true ;
: 2696      2774 2
: 2697      2775 2
: 2698      2776 2      Choose the appropriate display.
: 2699      2777 2
: 2700      2778 2
: 2701      2779 2      action = display_brief;
: 2702      2780 2      if .full_flag
: 2703      2781 2      then action = display_full;
: 2704      2782 2
: 2705      2783 2      LIB$SIGNAL(UAF$_LSTMSG1);          ! announce starting
: 2706      2784 2
: 2707      2785 2      if rmsbad (wild_user (.action))
: 2708      2786 2      then
: 2709      2787 2          begin
: 2710      2788 2              if .rmserr eql rms$_rnf
: 2711      2789 2              then
: 2712      2790 2                  LIB$SIGNAL(UAF$_BADSPC)
: 2713      2791 2              else
: 2714      2792 2                  LIB$SIGNAL(UAF$_LSTERR, 0, .rmserr);
: 2715      2793 2                  lstfab[fab$v_dlt] = true;          ! press delete button
: 2716      2794 2                  end
: 2717      2795 2      else
: 2718      2796 2          LIB$SIGNAL(UAF$_LSTMSG2);
: 2719      2797 2
: 2720      2798 2      $disconnect (rab = lstrab);
: 2721      2799 2      $close (fab = lstfab);
: 2722      2800 1      end;
```


			01FC 00000	.ENTRY	LIST UAF, Save R2,R3,R4,R5,R6,R7,R8	2693
	58	00000000G	8F D0 00002	MOVL	#UAF\$ LSTERR, R8	
	57	00000000G	00 9E 00009	MOVAB	CLISPRESENT, R7	
	56	00000000'	00 9E 00010	MOVAB	SD TOKEN1, R6	
	55	00000000G	00 9E 00017	MOVAB	LIB\$SIGNAL, R5	
	54	00000000'	00 9E 0001E	MOVAB	RMSERR, R4	
	53	00000000'	00 9E 00025	MOVAB	LSTRAB, R3	
			01 DD 0002C	PUSHL	#1	2735
			56 DD 0002E	PUSHL	R6	
00000000G	00		02 FB 00030	CALLS	#2, PARSE_WILD	
	01		50 E8 00037	BLBS	R0, 1\$	
			04 0003A	RET		
FE08	C3		01 7D 0003B 1\$:	MOVQ	#1, BRIEF_FLAG	2742
		2C	A6 9F 00040	PUSHAB	SD_FULL	2744
	67		01 FB 00043	CALLS	#1, CLISPRESENT	
	09		50 E8 00046	BLBS	R0, 2\$	
		20	A6 9F 00049	PUSHAB	SD_BRIEF	
	67		01 FB 0004C	CALLS	#1, CLISPRESENT	
	09		50 E8 0004F	BLBS	R0, 3\$	
		FE08	C3 D4 00052 2\$:	CLRL	BRIEF_FLAG	2747
FE0C	C3		01 D0 00056	MOVL	#1, FULL_FLAG	2748
B5	A3	80	8F 8A 0005B 3\$:	BICB2	#128, LSTFAB+5	2755
		B0	A3 9F 00060	PUSHAB	LSTFAB	2756
00000000G	00		01 FB 00063	CALLS	#1, SYSS\$CREATE	
	64		50 D0 0006A	MOVL	R0, RMSERR	
	0F		50 E9 0006D	BLBC	R0, 4\$	
			53 DD 00070	PUSHL	R3	2759
00000000G	00		01 FB 00072	CALLS	#1, SYSS\$CONNECT	
	64		50 D0 00079	MOVL	R0, RMSERR	
	0A		50 E8 0007C	BLBS	R0, 5\$	
			64 DD 0007F 4\$:	PUSHL	RMSERR	2760
			7E D4 00081	CLRL	-(SP)	
			58 DD 00083	PUSHL	R8	
	65		03 FB 00085	CALLS	#3, LIB\$SIGNAL	
			04 00088	RET		
FE10	C3		01 D0 00089 5\$:	MOVL	#1, HEADER_FLAG	2766
80	A4		63 9E 0008E	MOVAB	LSTRAB, RABPTR	2767
		06C8	C4 D4 00092	CLRL	FOUND_MATCH	2768
05F4	C4	00100008	8F D0 00096	MOVL	#1048584, UAFRAB+4	2769
00000000G	00		01 90 0009F	MOVB	#1, RDB_LIST_FLAG	2773
	52	00000000V	00 9E 000A6	MOVAB	DISPLAY-BRIEF, ACTION	2779
	07	FE0C	C3 E9 000AD	BLBC	FULL_FLAG, 6\$	2780
	52	00000000V	00 9E 000B2	MOVAB	DISPCAY FULL, ACTION	2781
		00000000G	8F DD 000B9 6\$:	PUSHL	#UAF\$ LSTMSG1	2783
	65		01 FB 000BF	CALLS	#1, LIB\$SIGNAL	
			52 DD 000C2	PUSHL	ACTION	2785
00000000V	00		01 FB 000C4	CALLS	#1, WILD_USER	
	64		50 D0 000CB	MOVL	R0, RMSERR	
	27		50 E8 000CE	BLBS	R0, 9\$	
	50		64 D0 000D1	MOVL	RMSERR, R0	2788
000182B2	8F		50 D1 000D4	CMPL	R0, #98994	
			0B 12 000DB	BNEQ	7\$	
		00000000G	8F DD 000DD	PUSHL	#UAF\$ BADSPC	2790
	65		01 FB 000E3	CALLS	#1, LIB\$SIGNAL	
			09 11 000E6	BRB	8\$	
			50 DD 000E8 7\$:	PUSHL	R0	2792
			7E D4 000EA	CLRL	-(SP)	

UAFMAIN
V04-000

list_uaf - list file routine

C 2
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 99
(18)

			58	DD	000EC	PUSHL	R8	:
			03	FB	000EE	CALLS	#3, LIB\$SIGNAL	:
B5	65		8F	88	000F1	BISB2	#128, LSTFAB+5	: 2793
	A3	80	09	11	000F6	BRB	10\$: 2785
		00000000G	8F	DD	000F8	PUSHL	#UAF\$, LSTMSG2	: 2796
	65		01	FB	000FE	CALLS	#1, LIB\$SIGNAL	:
			53	DD	00101	PUSHL	R3	: 2798
00000000G	00		01	FB	00103	CALLS	#1, SYSSDISCONNECT	:
		B0	A3	9F	0010A	PUSHAB	LSTFAB	: 2799
00000000G	00		01	FB	0010D	CALLS	#1, SYSSCLOSE	:
			04	00114	RET			: 2800

; Routine Size: 277 bytes, Routine Base: \$CODE\$ + 0FEF

show_user_uaf - display user record

```
: 2724 2801 1 %sbttl 'show_user_uaf - display user record'
: 2725 2802 1 global routine show_user_uaf : novalue =
: 2726 2803 2 begin
: 2727 2804 2
: 2728 2805 2 ++
: 2729 2806 2
: 2730 2807 2 FUNCTIONAL DESCRIPTION:
: 2731 2808 2
: 2732 2809 2 Display the specified users on SYS$OUTPUT.
: 2733 2810 2
: 2734 2811 2 INPUTS:
: 2735 2812 2
: 2736 2813 2 none
: 2737 2814 2
: 2738 2815 2 IMPLICIT INPUTS:
: 2739 2816 2
: 2740 2817 2 none
: 2741 2818 2
: 2742 2819 2 OUTPUTS:
: 2743 2820 2
: 2744 2821 2 none
: 2745 2822 2
: 2746 2823 2 IMPLICIT OUTPUTS:
: 2747 2824 2
: 2748 2825 2 none
: 2749 2826 2
: 2750 2827 2 ROUTINE VALUE:
: 2751 2828 2
: 2752 2829 2 none
: 2753 2830 2
: 2754 2831 2 SIDE EFFECTS:
: 2755 2832 2
: 2756 2833 2 none
: 2757 2834 2 --
: 2758 2835 2
: 2759 2836 2 local
: 2760 2837 2 action;
: 2761 2838 2
: 2762 2839 2
: 2763 2840 2 Obtain the user specification. This sets wildcard flags and initializes
: 2764 2841 2 the appropriate key in RECBUF.
: 2765 2842 2
: 2766 2843 2
: 2767 2844 2 if not parse_wild (sd_token1,false) ! Null string is disallowed.
: 2768 2845 2 then return;
: 2769 2846 2
: 2770 2847 2
: 2771 2848 2 Obtain qualifiers. This determines which display should be used.
: 2772 2849 2
: 2773 2850 2 full_flag = true;
: 2774 2851 2 brief_flag = false;
: 2775 2852 2
: 2776 2853 2 if cli$present (sd_brief) or (not cli$present (sd_full))
: 2777 2854 2 then
: 2778 2855 2 begin
: 2779 2856 2 brief_flag = true;
: 2780 2857 2 full_flag = false;
```


show_user_uaf - display user record

```
2781 2858 2      end;
2782 2859 2
2783 2860 2
2784 2861 2      Request a header record for the file and aim RABPTR at our RAB.
2785 2862 2
2786 2863 2
2787 2864 2      header_flag = true;
2788 2865 2      rabptr = outrab;
2789 2866 2      found_match = false;
2790 2867 2      uafra5[rab$l_rop] = rab$m_rrl or rab$m_nlk;
2791 2868 2
2792 2869 2
2793 2870 2      Flag the show operation for the rights data base routines .
2794 2871 2
2795 2872 2      rdb_list_flag = false ;
2796 2873 2
2797 2874 2
2798 2875 2      Choose the appropriate display.
2799 2876 2
2800 2877 2
2801 2878 2      action = display_full;
2802 2879 2      if .brief_flag
2803 2880 2      then action = display_brief;
2804 2881 2
2805 2882 2      if rmsbad (wild_user (.action))
2806 2883 2      then
2807 2884 2          begin
2808 2885 2              if .rmserr eql rms$rnf
2809 2886 2              then
2810 2887 2                  LIB$SIGNAL(UAF$_BADSPC)
2811 2888 2              else
2812 2889 2                  LIB$SIGNAL(UAF$_SHOW_ERR, 0, .rmserr);
2813 2890 2      end;
2814 2891 1 end;
```

			007C 00000	.ENTRY	SHOW USER UAF, Save R2,R3,R4,R5,R6	2802
	56	00000000G	00 9E 00002	MOVAB	LIB\$SIGNAL, R6	
	55	00000000G	00 9E 00009	MOVAB	CL\$PRESENT, R5	
	54	00000000'	00 9E 00010	MOVAB	SD TOKEN1, R4	
	53	00000000'	00 9E 00017	MOVAB	BRIEF_FLAG, R3	
	52	00000000'	00 9E 0001E	MOVAB	RMSERR, R2	
			7E D4 00025	CLRL	-(SP)	2844
			54 DD 00027	PUSHL	R4	
	00000000G	00	02 FB 00029	CALLS	#2, PARSE_WILD	
		7B	50 E9 00030	BLBC	R0, 5\$	
	04	A3	01 D0 00033	MOVL	#1, FULL_FLAG	2850
			63 D4 00037	CLRL	BRIEF_FLAG	2851
		20	A4 9F 00039	PUSHAB	SD BRIEF	2853
	65		01 FB 0003C	CALLS	#1, CL\$PRESENT	
	09		50 EB 0003F	BLBS	R0, 1\$	
		2C	A4 9F 00042	PUSHAB	SD FULL	
	65		01 FB 00045	CALLS	#1, CL\$PRESENT	
	03		50 EB 00048	BLBS	R0, 2\$	

show_user_uaf - display user record

F 2
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 Page 102
(19)

08	63	01	7D	0004B	1\$:	MOVQ	#1, BRIEF FLAG	:	2856
80	A3	01	D0	0004E	2\$:	MOVL	#1, HEADER FLAG	:	2864
	A2	C2	9E	00052		MOVAB	OUTRAB, RABPTR	:	2865
		C2	D4	00058		CLRL	FOUND MATCH	:	2866
05F4	C2	00100008	8F	D0	0005C	MOVL	#1048584, UAFRAB+4	:	2867
		00000000G	00	94	00065	CLRB	RDB LIST FLAG	:	2872
	50	00000000V	00	9E	0006B	MOVAB	DISPLAY FULL ACTION	:	2878
	07		63	E9	00072	BLBC	BRIEF FLAG, 3\$:	2879
	50	00000000V	00	9E	00075	MOVAB	DISPLAY BRIEF ACTION	:	2880
			50	DD	0007C	PUSHL	ACTION	:	2882
00000000V	00		01	FB	0007E	CALLS	#1, WILD USER	:	
	62		50	D0	00085	MOVL	R0, RMSERR	:	
	23		50	E8	00088	BLBS	R0, 5\$:	
	50		62	D0	0008B	MOVL	RMSERR, R0	:	2885
000182B2	8F		50	D1	0008E	CMPL	R0, #98994	:	
			0A	12	00095	BNEQ	4\$:	
		00000000G	8F	DD	00097	PUSHL	#UAF\$ BADSPC	:	2887
	66		01	FB	0009D	CALLS	#1, LIB\$ SIGNAL	:	
				04	000A0	RET		:	
			50	DD	000A1	PUSHL	R0	:	2889
			7E	D4	000A3	CLRL	-(SP)	:	
		00000000G	8F	DD	000A5	PUSHL	#UAF\$ SHOW ERR	:	
	66		03	FB	000AB	CALLS	#3, LIB\$ SIGNAL	:	
			04	000AE	5\$:	RET		:	2891

; Routine Size: 175 bytes, Routine Base: \$CODE\$ + 1104

show_proxy - display proxy record at terminal

G 2
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (20) Page 103

```
: 2816 2892 1 %sbttl 'show_proxy - display proxy record at terminal'
: 2817 2893 1 global routine show_proxy : novalue =
: 2818 2894 2 begin
: 2819 2895 2
: 2820 2896 2 !++
: 2821 2897 2
: 2822 2898 2 FUNCTIONAL DESCRIPTION:
: 2823 2899 2
: 2824 2900 2 This routine will display a specific proxy record or
: 2825 2901 2 will display all proxy entries to the user terminal.
: 2826 2902 2
: 2827 2903 2 INPUTS:
: 2828 2904 2
: 2829 2905 2 none
: 2830 2906 2
: 2831 2907 2 OUTPUTS:
: 2832 2908 2
: 2833 2909 2 none
: 2834 2910 2
: 2835 2911 2 IMPLICIT INPUTS:
: 2836 2912 2
: 2837 2913 2 TOKENLEN, TOKENPTR
: 2838 2914 2
: 2839 2915 2 IMPLICIT OUTPUTS:
: 2840 2916 2
: 2841 2917 2 none
: 2842 2918 2
: 2843 2919 2 SIDE EFFECTS:
: 2844 2920 2
: 2845 2921 2 none
: 2846 2922 2
: 2847 2923 2 --
: 2848 2924 2
: 2849 2925 2 local
: 2850 2926 2 node_len,
: 2851 2927 2 node_ptr,
: 2852 2928 2 remuser_len,
: 2853 2929 2 remuser_ptr,
: 2854 2930 2 action,
: 2855 2931 2 counter,
: 2856 2932 2 success;
: 2857 2933 2
: 2858 2934 2
: 2859 2935 2 ! Make sure that NETUAF.DAT exists
: 2860 2936 2
: 2861 2937 2 if not .netuaf exists
: 2862 2938 2 then return LIB$SIGNAL(UAF$_NAFDNE);
: 2863 2939 2
: 2864 2940 2
: 2865 2941 2 Retrieve token
: 2866 2942 2
: 2867 2943 2 cli$get_value (sd_token1, tokendsc);
: 2868 2944 2
: 2869 2945 2 header_flag = true;
: 2870 2946 2
: 2871 2947 2
: 2872 2948 2 ! Wildcard spec?
```



```
2873 2949 2 |
2874 2950 2 | if ch$find_ch (.tokenlen, .tokenptr, %c'%') neq 0
2875 2951 2 | or ch$find_ch (.tokenlen, .tokenptr, %c'*') neq 0
2876 2952 2 | then
2877 2953 2 |     begin
2878 2954 2 |         wild_netuser = true;
2879 2955 2 |         match_tokenlen = .tokenlen;
2880 2956 2 |         ch$move (.tokenlen, .tokenptr, match_token);
2881 2957 2 |     end
2882 2958 2 |
2883 2959 2 |     Otherwise, just display a single entry
2884 2960 2 |
2885 2961 2 | else
2886 2962 2 |     begin
2887 2963 2 |         wild_netuser = false;
2888 2964 2 |         if not remote_parse (node_ptr, node_len, remuser_ptr, remuser_len)
2889 2965 2 |         then return;
2890 2966 2 |
2891 2967 2 |         ch$copy (.node_len, .node_ptr, ' ', naf$s_node, netbuf[naf$t_node]);
2892 2968 2 |         ch$copy (.remuser_len, .remuser_ptr, ' ', naf$s_remuser, netbuf[naf$t_remuser]);
2893 2969 2 |         naf$s_remuser, netbuf[naf$t_remuser]);
2894 2970 2 |     end;
2895 2971 2 |
2896 2972 2 |     Set up action routine and rab pointer
2897 2973 2 |
2898 2974 2 |     rabptr = outrab;
2899 2975 2 |     action = display_proxy;
2900 2976 2 |     found_match = false;
2901 2977 2 |     nafrab[rab$l_rop] = rab$m_rri or rab$m_nlk;
2902 2978 2 |
2903 2979 2 |
2904 2980 2 |     Make call (s) necessary to display the requested entry or entries
2905 2981 2 |
2906 2982 2 |     if rmsbad (locate_proxy (.action))
2907 2983 2 |     then
2908 2984 2 |         begin
2909 2985 2 |             if .rmserr eql rms$_rnf
2910 2986 2 |             then
2911 2987 2 |                 LIB$SIGNAL(UAF$_BADSPC)
2912 2988 2 |             else
2913 2989 2 |                 LIB$SIGNAL(UAF$_SHOW_ERR, 0, .rmserr);
2914 2990 2 |             end;
2915 2991 2 |
2916 2992 1 | end;
```

```
00FC 00000
57 00000000G 00 9E 00002
56 00000000' 00 9E 00009
5E 10 C2 00010
09 10 A6 E8 00013
00000000G 8F DD 00017
00AA 31 0001D
56 DD 00020 1$:
```

```
.ENTRY SHOW PROXY, Save R2,R3,R4,R5,R6,R7
MOVAB LIB$SIGNAL, R7
MOVAB TOKENESC, R6
SUBL2 #16, SP
BLBS NETUAF_EXISTS, 1$
PUSHL #UAF$_NAFDNE
BRW 7$
PUSHL R6
```

```
: 2893
:
: 2937
: 2938
: 2943
```


			00000000G	00	00000000'	00	9F	00022	PUSHAB	SD_TOKEN1		
			00000000'	00		02	FB	00028	CALLS	#2, CLISGET_VALUE		
				52		01	D0	0002F	MOVL	#1, HEADER_FLAG		2945
				53		66	3C	00036	MOVZWL	TOKENLEN, R2		2950
				52	04	A6	D0	00039	MOVL	TOKENPTR, R3		
						25	3A	0003D	LOCC	#37, R2, (R3)		
						02	12	00041	BNEQ	2\$		
						51	D4	00043	CLRL	R1		
						51	D5	00045	TSTL	R1		
						0C	12	00047	BNEQ	4\$		
						2A	3A	00049	LOCC	#42, R2, (R3)		2951
						02	12	0004D	BNEQ	3\$		
						51	D4	0004F	CLRL	R1		
						51	D5	00051	TSTL	R1		
						0F	13	00053	BEQL	5\$		
						01	D0	00055	MOVL	#1, WILD_NETUSER		2954
						52	D0	00059	MOVL	R2, MATCH_TOKENLEN		2955
						52	28	0005D	MOVC3	R2, (R3), MATCH_TOKEN		2956
						29	11	00062	BRB	6\$		2950
						A6	D4	00064	CLRL	WILD_NETUSER		2963
						5E	DD	00067	PUSHL	SP		2964
						08	AE	9F	PUSHAB	REMUSER_PTR		
						10	AE	9F	PUSHAB	NODE_LEN		
						18	AE	9F	PUSHAB	NODE_PTR		
						04	FB	00072	CALLS	#4, REMOTE_PARSE		
						50	E9	00077	BLBC	R0, 9\$		
						AE	2C	0007A	MOVC5	NODE_LEN, @NODE_PTR, #32, #32, NETBUF		2967
						C6		00081				
						6E	2C	00084	MOVC5	REMUSER_LEN, @REMUSER_PTR, #32, #32, -		2969
						C6		0008A		NETBUF+32		
						C6	9E	0008D	MOVAB	OUTRAB, RABPTR		2975
						00	9E	00093	MOVAB	DISPLAY_PROXY, ACTION		2976
						C6	D4	0009A	CLRL	FOUND_MATCH		2977
						8F	D0	0009E	MOVL	#1048584, NAFRAB+4		2978
						50	DD	000A7	PUSHL	ACTION		2983
						01	FB	000A9	CALLS	#1, LOCATE_PROXY		
						50	D0	000B0	MOVL	R0, RMSERR		
						50	E8	000B4	BLBS	R0, 9\$		
						A6	D0	000B7	MOVL	RMSERR, R0		2986
						50	D1	000BB	CMPL	R0, #98994		
						0A	12	000C2	BNEQ	8\$		
						8F	DD	000C4	PUSHL	#UAF\$ BADSPC		2988
						01	FB	000CA	CALLS	#1, LIB\$SIGNAL		
						04		000CD	RET			
						50	DD	000CE	PUSHL	R0		2990
						7E	D4	000D0	CLRL	-(SP)		
						8F	DD	000D2	PUSHL	#UAF\$ SHOW_ERR		
						03	FB	000D8	CALLS	#3, LIB\$SIGNAL		
						04		000DB	RET			2992

; Routine Size: 220 bytes, Routine Base: \$CODE\$ + 11B3


```
2918 2993 1 %sbtlt 'locate_proxy - access given proxy record (s)'
2919 2994 1 routine locate_proxy (action) =
2920 2995 2 begin
2921 2996 2
2922 2997 2 ++
2923 2998 2
2924 2999 2 FUNCTIONAL DESCRIPTION:
2925 3000 2
2926 3001 2 This routine will call a requested action routine a number of times.
2927 3002 2
2928 3003 2 INPUTS:
2929 3004 2
2930 3005 2 ACTION - the action routine to call for each NEUAF record
2931 3006 2
2932 3007 2 OUTPUTS:
2933 3008 2
2934 3009 2 none
2935 3010 2
2936 3011 2 SIDE EFFECTS:
2937 3012 2
2938 3013 2 none
2939 3014 2
2940 3015 2 --
2941 3016 2
2942 3017 2 local
2943 3018 2 status;
2944 3019 2
2945 3020 2
2946 3021 2 If wild user, set acces to sequential and fetch all records
2947 3022 2
2948 3023 2 if .wild_netuser
2949 3024 2 then
2950 3025 2 begin
2951 3026 2 nafcab[raab$b_rac] = raab$c_seq;
2952 3027 2 $rewind (raab = nafcab);
2953 3028 2 end;
2954 3029 2
2955 3030 2 status = get_proxy_record ();
2956 3031 2
2957 3032 2
2958 3033 2 Fetch record and call action routine until EOF
2959 3034 2
2960 3035 2 if .status
2961 3036 2 then (.action) ();
2962 3037 2
2963 3038 2 if .wild_netuser
2964 3039 2 then
2965 3040 2 begin
2966 3041 2 while status = get_proxy_record ()
2967 3042 2 do (.action) ();
2968 3043 2 if .status eql rms$_eof
2969 3044 2 then status = true;
2970 3045 2 end;
2971 3046 2
2972 3047 2
2973 3048 2 Restore keyed access
2974 3049 2
```


UAFMAIN
V04-000

locate_proxy - access given proxy record (s)

K 2
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 107
(21)

```
: 2975      3050  2  nafrab[ra$b_rac] = ra$b_key;
: 2976      3051  2
: 2977      3052  2  if .wild netuser and not .found_match
: 2978      3053  2  then LIB$SIGNAL(UAF$_BADSPC);
: 2979      3054  2
: 2980      3055  2  .status
: 2981      3056  1  end;
```

			001C 00000	LOCATE_PROXY:		
	54	00000000V	00	9E 00002	.WORD	Save R2,R3,R4
	53	00000000V	00	9E 00009	MOVAB	GET_PROXY_RECORD, R4
	OF		63	E9 00010	MOVAB	WILD_NETUSER, R3
		0672	C3	94 00013	BLBC	WILD_NETUSER, 1\$
		0654	C3	9F 00017	CLRB	NAFRAB+30
00000000G	00		01	FB 0001B	PUSHAB	NAFRAB
	64		00	FB 00022	CALLS	#1, SYSSREWIND
	52		50	D0 00025	CALLS	#0, GET_PROXY_RECORD
	04		52	E9 00028	MOVL	R0, STATUS
04	BC		00	FB 0002B	BLBC	STATUS, 2\$
	1B		63	E9 0002F	CALLS	#0, @ACTION
	64		00	FB 00032	BLBC	WILD_NETUSER, 5\$
	52		50	D0 00035	CALLS	#0, GET_PROXY_RECORD
	06		52	E9 00038	MOVL	R0, STATUS
04	BC		00	FB 0003B	BLBC	STATUS, 4\$
			F1	11 0003F	CALLS	#0, @ACTION
0001827A	8F		52	D1 00041	BRB	3\$
			03	12 00048	CMPL	STATUS, #98938
	52		01	D0 0004A	BNEQ	5\$
0672	C3		01	90 0004D	MOVL	#1, STATUS
	12		63	E9 00052	MOVB	#1, NAFRAB+30
	0D	06E8	C3	E8 00055	BLBC	WILD_NETUSER, 6\$
		00000000G	8F	DD 0005A	BLBS	FOUND_MATCH, 6\$
00000000G	00		01	FB 00060	PUSHL	#UAF\$_BADSPC
	50		52	D0 00067	CALLS	#1, LIB\$SIGNAL
			04	0006A	MOVL	STATUS, R0
					RET	

; Routine Size: 107 bytes, Routine Base: \$CODE\$ + 128F


```
2983 3057 1 %sbttl 'get_proxy_record - read single proxy record'
2984 3058 1 routine get_proxy_record =
2985 3059 2 begin
2986 3060 2
2987 3061 2 ++
2988 3062 2
2989 3063 2 FUNCTIONAL DESCRIPTION:
2990 3064 2
2991 3065 2 This routine accesses a specific NETUAF.DAT record
2992 3066 2
2993 3067 2 INPUTS:
2994 3068 2
2995 3069 2 none
2996 3070 2
2997 3071 2 OUTPUTS:
2998 3072 2
2999 3073 2 none
3000 3074 2
3001 3075 2 SIDE EFFECTS:
3002 3076 2
3003 3077 2 none
3004 3078 2
3005 3079 2 --
3006 3080 2
3007 3081 2 local
3008 3082 2 counter,
3009 3083 2 success;
3010 3084 2
3011 3085 2 counter = retry_rlk;
3012 3086 2
3013 3087 2 while ((success = $get (rab = nafrab)) eql rms$_rlk)
3014 3088 2 and ((counter = .counter - 1) geq 0)
3015 3089 2 do
3016 3090 2 if $schdwk (daytim = wakedelta) then $hiber;
3017 3091 2
3018 3092 2 .success
3019 3093 2 end;
```

```
.EXTRN SYSSGET, SYSSCHDWK
.EXTRN SYSSHIBER
```

000C 00000 GET_PROXY RECORD:

	52		08	D0	00002		WORD	Save R2,R3	
		00000000'	00	9F	00005	1\$:	MOVL	#8, COUNTER	
00000000G	00		01	FB	0000B		PUSHAB	NAFRAB	
	53		50	D0	00012		CALLS	#1, SYSSGET	
000182AA	8F		53	D1	00015		MOVL	R0, SUCCESS	
			21	12	0001C		CMPL	SUCCESS, #98986	
			52	D7	0001E		BNEQ	2\$	
			1D	19	00020		DECL	COUNTER	
			7E	D4	00022		BLSS	2\$	
		00000000'	00	9F	00024		CLRL	-(SP)	
			7E	7C	0002A		PUSHAB	WAKEDELTA	
00000000G	00		04	FB	0002C		CLRQ	-(SP)	
							CALLS	#4, SYSSCHDWK	

```
3058
3085
3087
3088
3090
```


UAFMAIN
V04-000

get_proxy_record - read single proxy record

M 2
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 109
(22)

00000000G	CF	50	E9	00033	BLBC	R0, 1\$:
	00	00	FB	00036	CALLS	#0, SYSSHIBER	:
		C6	11	0003D	BRB	1\$:
	50	53	D0	0003F	MOVL	SUCCESS, R0	:
			04	00042	RET		:

3093

; Routine Size: 67 bytes, Routine Base: \$CODE\$ + 12FA


```
3021 3094 1 %sbttl 'display_proxy - format and output a proxy entry'
3022 3095 1 routine display_proxy : novalue =
3023 3096 2 begin
3024 3097 2
3025 3098 2 ++
3026 3099 2
3027 3100 2 FUNCTIONAL DESCRIPTION:
3028 3101 2
3029 3102 2 This routine formats and outputs a line of a NETUAF.DAT entry
3030 3103 2
3031 3104 2 INPUTS:
3032 3105 2
3033 3106 2 none
3034 3107 2
3035 3108 2 OUTPUTS:
3036 3109 2
3037 3110 2 none
3038 3111 2
3039 3112 2 SIDE EFFECTS:
3040 3113 2
3041 3114 2 none
3042 3115 2
3043 3116 2 --
3044 3117 2
3045 3118 2 bind
3046 3119 2 nafhdr = cstring (' Node Remote User Local User'),
3047 3120 2 shownaf = cstring ('!6AD::!12AD !12AD');
3048 3121 2
3049 3122 2
3050 3123 2 if .wild_netuser
3051 3124 2 and not
3052 3125 2 begin
3053 3126 2 local
3054 3127 2 nodelen, usrlen, proxy_buf : vector[naf$s_remname+2,byte];
3055 3128 2 map
3056 3129 2 dbl_colon : vector;
3057 3130 2
3058 3131 2 nodelen = namelen (naf$s_node, netbuf[naf$t_node]);
3059 3132 2 usrlen = namelen (naf$s_remuser, netbuf[naf$t_remuser]);
3060 3133 2 ch$move (.nodelen, netbuf[naf$t_node], proxy_buf [0]);
3061 3134 2 ch$move (2, .dbl_colon[1], proxy_buf [.nodelen]);
3062 3135 2 ch$move (.usrlen, netbuf [naf$t_remuser], proxy_buf [.nodelen+2]);
3063 3136 2
3064 3137 2 usrlen = .nodelen + .usrlen + 2;
3065 3138 2 fmg$match_name (.usrlen, proxy_buf, .match_tokenlen, match_token)
3066 3139 2 end
3067 3140 2 then
3068 3141 2 return;
3069 3142 2
3070 3143 2 found_match = true;
3071 3144 2
3072 3145 2 if .header_flag
3073 3146 2 then
3074 3147 2 begin
3075 3148 2 faomac (nafhdr);
3076 3149 2 output_null;
3077 3150 2 header_flag = false;
```



```

: 3078      3151 2      end;
: 3079      3152 2
: 3080      3153 2      faomac (shownaf,
: 3081      3154 2      *** naf$s_node,      netbuf[naf$t_node],
: 3082      3155 2      *** naf$s_remuser,    netbuf[naf$t_remuser],
: 3083      3156 2      *** naf$s_localuser, netbuf[naf$t_localuser]);
: 3084      3157 2      6,      netbuf[naf$t_node],
: 3085      3158 2      12,     netbuf[naf$t_remuser],
: 3086      3159 2      12,     netbuf[naf$t_localuser]);
: 3087      3160 2
: 3088      3161 1 end;
```

```

20 65 74 6F 6D 65 52 20 20 20 65 64 6F 4E 22 00254 P.ACN: .BYTE 34
20 6C 61 63 6F 4C 20 20 20 20 72 72 65 73 55 00255 .ASCII \ Node Remote User Local User\
20 20 20 20 44 41 32 31 21 3A 3A 44 41 36 14 00277 P.ACO: .BYTE 20
20 20 20 20 44 41 32 31 21 44 41 32 31 21 00278 .ASCII \!6AD::!12AD !12AD\
20 20 20 20 44 41 32 31 21 44 41 32 31 21 00287
```

```

NAFHDR=
SHOWNAF=
.PSECT $SPLITS,NOWRT,NOEXE,2
.PSECT $CODE$,NOWRT,2
```

```

OFFC 00000 DISPLAY_PROXY:
5B 0C000000' 00 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 : 3095
5A 00000000G 00 9E 00009 MOVAB HEADER_FLAG, R11
59 00000000' 00 9E 00010 MOVAB SYSS$PUT, R10
58 00000000' 00 9E 00017 MOVAB DBL COLON+4, R9
5E BC AE 9E 0001E MOVAB RABPTR, R8
47 60 A8 E9 00022 MOVAB -68(SP), SP
060C C8 20 20 3A 00026 BLBC WILD_NETUSER, 1$ : 3123
56 20 50 C3 0002C LOCC #32, #32, NETBUF : 3131
062C C8 20 20 3A 00030 SUBL3 R0, #32, NODELEN
57 20 50 C3 00036 LOCC #32, #32, NETBUF+32 : 3132
6E 060C C8 20 56 28 0003A SUBL3 R0, #32, USRLEN
50 50 69 D0 00040 MOVAB NODELEN, NETBUF, PROXY_BUF : 3133
6E46 6E 60 B0 00043 MOVL DBL COLON+4, R0 : 3134
9E 60 B0 00046 PUSHAB PROXY_BUF[NODELEN]
02 AE46 062C C8 57 28 00049 MOVW (R0), -a(SP)+
57 02 A746 9E 00051 MOVAB USRLEN, NETBUF+32, PROXY_BUF+2[NODELEN] : 3135
55 18 A8 9E 00056 MOVAB 2(USRLEN)[NODELEN], USRLEN : 3137
53 6E 9E 0005A MOVAB MATCH_TOKEN, R5 : 3138
54 5C A8 D0 0005D MOVAB PROXY_BUF, R3
52 57 D0 00061 MOVL MATCH_TOKENLEN, R4
00000000G 00 16 00064 MOVL USRLEN, R2
6B 50 E9 0006A JSB FMG$MATCH_NAME
0748 C8 01 D0 0006D BLBC R0, 3$ : 3143
F8 2F 6B E9 00072 MOVL #1, FOUND_MATCH : 3145
A8 0140 C9 9B 00075 BLBC HEADER_FLAG, 2$ : 3148
MOVZBW NAFHDR, FAODSC
```


FC	A8	0141	C9	9E	0007B	MOVAB	NAFHDR+1, FAODSC+4	
		F0	A8	9F	00081	PUSHAB	DISDSC	
7E	68		22	C1	00084	ADDL3	#34, RABPTR, -(SP)	
		F8	A8	9F	00088	PUSHAB	FAODSC	
00000000G	00		03	FB	0008B	CALLS	#3, SYSS\$FA0	
	6A		68	DD	00092	PUSHL	RABPTR	
	50		01	FB	00094	CALLS	#1, SYSS\$PUT	
		22	68	D0	00097	MOVL	RABPTR, R0	
			A0	B4	0009A	CLRW	34(R0)	
			50	DD	0009D	PUSHL	R0	
	6A		01	FB	0009F	CALLS	#1, SYSS\$PUT	
			6B	D4	000A2	CLRL	HEADER FLAG	3150
F8	A8	0163	C9	9B	000A4	MOVZBW	SHOWNAF, FAODSC	3159
FC	A8	0164	C9	9E	000AA	MOVAB	SHOWNAF+1, FAODSC+4	
		064C	C8	9F	000B0	PUSHAB	NETBUF+64	
			0C	DD	000B4	PUSHL	#12	
		062C	C8	9F	000B6	PUSHAB	NETBUF+32	
			0C	DD	000BA	PUSHL	#12	
		060C	C8	9F	000BC	PUSHAB	NETBUF	
			06	DD	000C0	PUSHL	#6	
		F0	A8	9F	000C2	PUSHAB	DISDSC	
7E	68		22	C1	000C5	ADDL3	#34, RABPTR, -(SP)	
		F8	A8	9F	000C9	PUSHAB	FAODSC	
00000000G	00		09	FB	000CC	CALLS	#9, SYSS\$FA0	
			68	DD	000D3	PUSHL	RABPTR	
	6A		01	FB	000D5	CALLS	#1, SYSS\$PUT	
			04	000D8	3\$:	RET		3161

; Routine Size: 217 bytes, Routine Base: \$CODE\$ + 133D

wild_user - user wild card routine

```
3090 1 %sbttl 'wild_user - user wild card routine'
3091 1 global routine wild_user (action) =
3092 2 begin
3093 2
3094 2 ++
3095 2
3096 2 FUNCTIONAL DESCRIPTION:
3097 2
3098 2 Provide a general means of accessing the User Authorization File
3099 2 records. There are six methods:
3100 2
3101 2 UGMS
3102 2 IRET
3103 2 CPMR
3104 2 \\\
3105 2 FWWW
3106 2 LIII
3107 2 ALLL
3108 2 Syntax GDDD Interpretation
3109 2 -----
3110 2 Username FFFF Exactly one user is to be located
3111 2 * FFFT All users (alphabetically)
3112 2 [Group,Member] TFFF All users with the specified UIC
3113 2 [Group,*] TFTF All users in the specified group (by member)
3114 2 [*,Member] TTFF A FIFO listing of the groups with this member
3115 2 [*,*] TTFB All users by UIC
3116 2
3117 2 INPUTS:
3118 2
3119 2 ACTION - Pointer to routine to call after each successful GET
3120 2
3121 2 IMPLICIT INPUTS:
3122 2
3123 2 UIC_FLAG - UIC form (instead of username)
3124 2 GRP_WILD - Group wild card (must imply UIC_FLAG)
3125 2 MEM_WILD - Member wild card (must imply UIC_FLAG)
3126 2 STR_WILD - all users alphabetically (must imply NOT UIC_FLAG)
3127 2 UAFRAB - RMS data structure for SYSUAF.DAT
3128 2 RECBUF - The current record
3129 2
3130 2 OUTPUTS:
3131 2
3132 2 none
3133 2
3134 2 IMPLICIT OUTPUTS:
3135 2
3136 2 none
3137 2
3138 2 ROUTINE VALUE:
3139 2
3140 2 If an abnormal condition is encountered the appropriate status
3141 2 is returned.
3142 2
3143 2 SIDE EFFECTS:
3144 2
3145 2 none
3146 2 --
```


wild_user - user wild card routine

```
3147 3219 2
3148 3220 ~ macro
3149 3221 ~     lmt_l_uic = 0,0,32,0%,      ! User ID Code
3150 3222 ~     lmt_w_mem = 0,0,16,0%,    ! Member subfield
3151 3223 ~     lmt_w_grp = 2,0,16,0%;   ! Group subfield
3152 3224 ~
3153 3225 ~ local
3154 3226 ~     status,                  ! This routine's status
3155 3227 ~     lmtkey : block[4,byte]; ! Limiting key value for sequential loop
3156 3228 ~
3157 3229 ~ if .uic_flag
3158 3230 ~ then
3159 3231 ~     Change the key of reference and the key buffer if a UIC form was
3160 3232 ~     specified.
3161 3233 ~
3162 3234 ~     begin
3163 3235 ~         uafrab[rab$b_krf] = 1;
3164 3236 ~         uafrab[rab$l_kbf] = recbuf[uaf$l_uic];
3165 3237 ~         uafrab[rab$b_ksz] = 4;
3166 3238 ~     end;
3167 3239 ~
3168 3240 ~ if .mem_wild and not .grp_wild
3169 3241 ~ then
3170 3242 ~     The UIC requested was of the form [Group,*]
3171 3243 ~
3172 3244 ~     uafrab[rab$v_kge] = true;
3173 3245 ~
3174 3246 ~
3175 3247 ~
3176 3248 ~
3177 3249 ~ LMTKEY need be loaded only IF .UIC FLAG AND NOT (.GRP_WILD AND .MEM_WILD)
3178 3250 ~ but it is simpler to always load it.
3179 3251 ~
3180 3252 ~
3181 3253 ~ lmtkey[lmt_l_uic] = .recbuf[uaf$l_uic];
3182 3254 ~
3183 3255 ~
3184 3256 ~ Locate the first user meeting the specification.
3185 3257 ~
3186 3258 ~
3187 3259 ~ if .str_wild or .grp_wild
3188 3260 ~ then
3189 3261 ~     begin
3190 3262 ~
3191 3263 ~         Every user in the file is to be accessed.
3192 3264 ~
3193 3265 ~         uafrab[rab$b_rac] = rab$c_seq;
3194 3266 ~         $rewind (rab = uafrab);
3195 3267 ~         status = get_uaf_record ();
3196 3268 ~     end
3197 3269 ~ else
3198 3270 ~     begin
3199 3271 ~         status = get_uaf_record ();
3200 3272 ~         if .uic_flag
3201 3273 ~         then
3202 3274 ~             begin
3203 3275 ~
```


wild_user - user wild card routine

```

3204 3276 4 | Even an explicit UIC requires sequential reads to locate duplicates.
3205 3277 4 |
3206 3278 4 |     uafrab[ra$b_rac] = rab$c_seq;
3207 3279 4 |     if .mem_wild and not .grp_wild
3208 3280 4 |     then
3209 3281 5 |         begin
3210 3282 5 |
3211 3283 5 |         RAB$V_KGE is set on the initial access for specifications of the
3212 3284 5 |         form [Group,*] so if the specified group has no members the record
3213 3285 5 |         will be that of a user in another group.
3214 3286 5 |
3215 3287 5 |         uafrab[ra$b_v_kge] = false;
3216 3288 5 |         if .lmtkey[lmt_w_grp] nequ .recbuf[ua$f_w_grp]
3217 3289 5 |         then
3218 3290 5 |             status = rms$_rnf;
3219 3291 4 |         end;
3220 3292 3 |     end;
3221 3293 2 | end;
3222 3294 2 |
3223 3295 2 | if .status
3224 3296 2 | then
3225 3297 3 |     begin
3226 3298 3 |
3227 3299 3 |     Feed the action routine the first record. In the case of an explicit
3228 3300 3 |     username specification this will be the only record.
3229 3301 3 |
3230 3302 3 |     while .status
3231 3303 3 |     do
3232 3304 4 |         begin
3233 3305 5 |             if (
3234 3306 5 |                 if .grp_wild and not .mem_wild
3235 3307 5 |                 then .recbuf[ua$f_w_mem] eql .lmtkey[lmt_w_mem]
3236 3308 5 |                 else true
3237 3309 5 |             )
3238 3310 4 |             then status = (.action) ();
3239 3311 4 |             if not .status then exitloop;
3240 3312 4 |             if not (.str_wild or .uic_flag)
3241 3313 4 |             then exitloop;
3242 3314 4 |             status = get_uaf_record ();
3243 3315 4 |             if not .status then exitloop;
3244 3316 4 |             if .uic_flag
3245 3317 4 |             then
3246 3318 5 |                 begin
3247 3319 5 |
3248 3320 5 |                 The limiting key value is used in different ways depending
3249 3321 5 |                 on the form of the UIC specification.
3250 3322 5 |
3251 3323 5 |                 if .mem_wild and not .grp_wild
3252 3324 5 |                 then
3253 3325 5 |
3254 3326 5 |                 [Group,*]
3255 3327 5 |
3256 3328 6 |                 begin
3257 3329 6 |                     if .lmtkey[lmt_w_grp] nequ .recbuf[ua$f_w_grp]
3258 3330 6 |                     then exitloop;
3259 3331 5 |                 end;
3260 3332 6 |                 if not (.grp_wild or .mem_wild)
```


wild_user - user wild card routine

```
3261      3333      5      then
3262      3334      5      :
3263      3335      5      [Group,Member]
3264      3336      5      :
3265      3337      6      begin
3266      3338      6      if .lmtkey[lmt_l_uic] nequ .recbuf[uaf$l_uic]
3267      3339      6      then exitloop;
3268      3340      5      end;
3269      3341      4      end;
3270      3342      3      end;
3271      3343      3      if .status eql rms$_eof
3272      3344      3      then status = true;
3273      3345      3      end;
3274      3346      2
3275      3347      2      if .str_wild and not .found_match
3276      3348      2      then LIB$SIGNAL(UAF$_BADSPCT);
3277      3349      2
3278      3350      2      :
3279      3351      2      : The RAB must be returned to its former state before exiting.
3280      3352      2      :
3281      3353      2      uafrab[rab$b_rac] = rab$c_key;
3282      3354      2
3283      3355      2      if .uic_flag
3284      3356      2      then
3285      3357      3      begin
3286      3358      3      uafrab[rab$b_krf] = 0;
3287      3359      3      uafrab[rab$l_kbf] = recbuf[uaf$t_username];
3288      3360      3      uafrab[rab$b_ksz] = uaf$s_username;
3289      3361      2      end;
3290      3362      2
3291      3363      2      :
3292      3364      2      : Reset parse count
3293      3365      2      :
3294      3366      2      call_count = 0;
3295      3367      2
3296      3368      2      .status
3297      3369      1      end;
```

				001C 00000	.ENTRY WILD USER, Save R2,R3,R4	3163
	54	00000000V	00	9E 00002	MOVAB GET_OAF_RECORD, R4	
	53	00000000'	00	9E 00009	MOVAB GRP_WILD, R3	
	5E		04	C2 00010	SUBL2 #4, -SP	
	0E	FC	A3	E9 00013	BLBC UIC_FLAG, 1\$	3229
FF50	C3	F95C	C3	9E 00017	MOVAB RECBUF+36, UAFRAB+48	3237
FF54	C3	0104	8F	B0 0001E	MOVW #260, UAFRAB+52	3238
	08	04	A3	E9 00025	BLBC MEM_WILD, 2\$	3241
	05		63	E8 00029	BLBS GRP_WILD, 2\$	
FF26	C3		20	88 0002C	BISB2 #32, UAFRAB+6	3246
	6E	F95C	C3	D0 00031	MOVL RECBUF+36, LMTKEY	3253
	03	08	A3	E8 00036	BLBS STR_WILD, 3\$	3259
	17		63	E9 0003A	BLBC GRP_WILD, 4\$	
		FF3E	C3	94 0003D	CLRB UAFRAB+30	3265
		FF20	C3	9F 00041	PUSHAB UAFRAB	3266

00000000G	00	01	FB	00045	CALLS	#1, SYSSREWIND	:	
	64	00	FB	0004C	CALLS	#0, GET_UAF_RECORD	:	3267
	52	50	D0	0004F	MOVL	R0, STATUS	:	
		29	11	00052	BRB	5\$:	3259
	64	00	FB	00054	CALLS	#0, GET_UAF_RECORD	:	3271
	52	50	D0	00057	MOVL	R0, STATUS	:	
	1F	A3	E9	0005A	BLBC	UIC_FLAG, 5\$:	3272
		C3	94	0005E	CLRB	UAFRAB+30	:	3278
	17	A3	E9	00062	BLBC	MEM_WILD, 5\$:	3279
	14	63	E8	00066	BLBS	GRP_WILD, 5\$:	
FF26	C3	20	8A	00069	BICB2	#32, UAFRAB+6	:	3287
F95E	C3	AE	B1	0006E	CMPW	LMTKEY+2, RECBUF+38	:	3288
		07	13	00074	BEQL	5\$:	
	52	8F	D0	00076	MOVL	#98994, STATUS	:	3290
	5B	52	E9	0007D	BLBC	STATUS, 12\$:	3295
	4C	52	E9	00080	BLBC	STATUS, 11\$:	3302
	0B	63	E9	00083	BLBC	GRP_WILD, 7\$:	3306
	07	A3	E8	00086	BLBS	MEM_WILD, 7\$:	
	6E	C3	B1	0008A	CMPW	RECBUF+36, LMTKEY	:	3307
		07	12	0008F	BNEQ	8\$:	
04	BC	00	FB	00091	CALLS	#0, @ACTION	:	3310
	52	50	D0	00095	MOVL	R0, STATUS	:	
	34	52	E9	00098	BLBC	STATUS, 11\$:	3311
	04	A3	E8	0009B	BLBS	STR_WILD, 9\$:	3312
	2C	A3	E9	0009F	BLBC	UIC_FLAG, 11\$:	
	64	00	FB	000A3	CALLS	#0, GET_UAF_RECORD	:	3314
	52	50	D0	000A6	MOVL	R0, STATUS	:	
	23	52	E9	000A9	BLBC	STATUS, 11\$:	3315
	D0	A3	E9	000AC	BLBC	UIC_FLAG, 6\$:	3316
	50	A3	D0	000B0	MOVL	MEM_WILD, R0	:	3323
	0B	50	E9	000B4	BLBC	R0, 10\$:	
	C6	63	E8	000B7	BLBS	GRP_WILD, 6\$:	
F95E	C3	AE	B1	000BA	CMPW	LMTKEY+2, RECBUF+38	:	3329
		0D	12	000C0	BNEQ	11\$:	
	BB	63	E8	000C2	BLBS	GRP_WILD, 6\$:	3332
	B8	50	E8	000C5	BLBS	R0, 6\$:	
F95C	C3	6E	D1	000C8	CMPL	LMTKEY, RECBUF+36	:	3338
		B1	13	000CD	BEQL	6\$:	
0001827A	8F	52	D1	000CF	CMPL	STATUS, #98938	:	3343
		03	12	000D6	BNEQ	12\$:	
	52	01	D0	000D8	MOVL	#1, STATUS	:	3344
	11	A3	E9	000DB	BLBC	STR_WILD, 13\$:	3347
	0D	A3	E8	000DF	BLBS	FOUND_MATCH, 13\$:	
		8F	DD	000E3	PUSHL	#UAF\$-BADSPC	:	3348
00000000G	00	01	FB	000E9	CALLS	#1, LTB\$SIGNAL	:	
FF3E	C3	01	90	000F0	MOVB	#1, UAFRAB+30	:	3353
	0C	A3	E9	000F5	BLBC	UIC_FLAG, 14\$:	3355
FF50	C3	C3	9E	000F9	MOVAB	RECBUF+4, UAFRAB+48	:	3359
FF54	C3	20	B0	00100	MOVW	#32, UAFRAB+52	:	3360
		C3	D4	00105	CLRL	CALL COUNT	:	3366
	50	52	D0	00109	MOVL	STATUS, R0	:	3369
		04	0010C	RET			:	

; Routine Size: 269 bytes, Routine Base: \$CODE\$ + 1416


```
3299 3370 1 %sbttl 'display_brief - writes a brief user display'
3300 3371 1 routine display_brief =
3301 3372 2 begin
3302 3373 2
3303 3374 2 ++
3304 3375 2
3305 3376 2 FUNCTIONAL DESCRIPTION:
3306 3377 2
3307 3378 2 Provide an ASCII listing of the most important record information
3308 3379 2 (username, owner, etc.) for each record supplied.
3309 3380 2
3310 3381 2 INPUTS:
3311 3382 2
3312 3383 2 none
3313 3384 2
3314 3385 2 IMPLICIT INPUTS:
3315 3386 2
3316 3387 2 RABPTR - RMS data structure for the file
3317 3388 2
3318 3389 2 OUTPUTS:
3319 3390 2
3320 3391 2 none
3321 3392 2
3322 3393 2 IMPLICIT OUTPUTS:
3323 3394 2
3324 3395 2 none
3325 3396 2
3326 3397 2 ROUTINE VALUE:
3327 3398 2
3328 3399 2 none
3329 3400 2
3330 3401 2 SIDE EFFECTS:
3331 3402 2
3332 3403 2 none
3333 3404 2 --
3334 3405 2
3335 3406 2 bind
P 3336 3407 2 lststr1 = cstring (' Owner Username UIC Account Privs',
3337 3408 2 ' Pri Directory'),
3338 3409 2 lststr2 = cstring ('!20AC !12AD !15%U !8AF !6AC !2UL !AC!AC');
3339 3410 2
3340 3411 2
3341 3412 2 Output a header if one was requested.
3342 3413 2
3343 3414 2 if .header_flag
3344 3415 2 then
3345 3416 2 begin
3346 3417 2 faomac (lststr1);
3347 3418 2 output_null;
3348 3419 2 header_flag = false;
3349 3420 2 end;
3350 3421 2
3351 3422 2 if .str_wild and not fmg$match_name (namelen (uaf$s_username,recbuf[uaf$t_username]),
3352 3423 2 recbuf[uaf$t_username],
3353 3424 2 .match_token[en, match_token)
3354 3425 2 then return true;
3355 3426 2
```



```

3356      3427 2 found_match = true;
3357      3428 2
3358      3429 2 |
3359      3430 2 | Output the record.
3360      3431 2 |
3361      3432 2
3362      3433 2 ch$fill (' ', disbuflen, disbuf);
3363      3434 2
3364      3435 2 faomac (lststr2,
3365      3436 2     recbuf[uaf$t_owner],
3366      3437 2     !*** uaf$s_username, recbuf[uaf$t_username],
3367      3438 2     12, recbuf[uaf$t_username],
3368      3439 2     .recbuf[uaf$l_uic],
3369      3440 2     !*** uaf$s_account, recbuf[uaf$t_account],
3370      3441 2     8, recbuf[uaf$t_account],
3371      3442 2     c(assfy_priv (recbuf[uaf$q_priv], .recbuf[uaf$l_uic]),
3372      3443 2     .recbuf[uaf$b_pri],
3373      3444 2     recbuf[uaf$t_defdev],
3374      3445 2     recbuf[uaf$t_defdir]));
3375      3446 2
3376      3447 2 true
3377      3448 1 end;

```

														.PSECT		\$SPLITS, NOWRT, NOEXE, 2					
20	20	20	72	65	6E	77	4F	20	20	20	20	20	20	4E	0028C	P.ACP:	.BYTE	78			
20	65	6D	61	6E	72	65	73	55	20	20	20	20	20	20	0028D		.ASCII	\	Owner	Username	
					20	20	20	20	20	20	20	20	20	20	0029C						
75	6F	63	63	41	20	20	20	20	20	20	43	49	55	002AB							
44	20	69	72	50	20	73	76	69	72	50	20	20	74	6E	002B5	P.ACQ:	.ASCII	\UIC	Account	Privs Pri Directory\	
							79	72	6F	74	63	65	72	69	002C4						
														27	002D3						
35	31	21	20	44	41	32	31	21	20	43	41	30	32	21	002DB		.BYTE	39			
32	21	20	43	41	36	21	20	46	41	38	21	20	55	25	002DC	P.ACP:	.ASCII	\!20AC !12AD !15%U !8AF !6AC !2UL !AC!AC\			
						43	41	21	43	41	21	20	4C	55	002EB						
															002FA						
														LSTSTR1=		P.ACP					
														LSTSTR2=		P.ACQ					

				.PSECT		SCODES, NOWRT, 2	
				07FC 00000		DISPLAY_BRIEF:	
				.WORD		Save R2,R3,R4,R5,R6,R7,R8,R9,R10	
5A	00000000'	00	9E	00002	MOVAB	HEADER FLAG, R10	: 3371
59	00000000G	00	9E	00009	MOVAB	SYSS\$FA0, R9	: :
58	00000000G	00	9E	00010	MOVAB	SYSS\$PUT, R8	: :
57	00000000'	00	9E	00017	MOVAB	LSTSTR1, R7	: :
56	00000000'	00	9E	0001E	MOVAB	RABPTR, R6	: :
28		6A	E9	00025	BLBC	HEADER FLAG, 1\$: 3414
F8	A6	67	9B	00028	MOVZBW	LSTSTR1, FA0DSC	: 3417
FC	A6	01	A7	9E	0002C	MOVAB	LSTSTR1+1, FA0DSC+4
		F0	A6	9F	00031	PUSHAB	DISDSC
7E	66		22	C1	00034	ADDL3	#34, RABPTR, -(SP)

; Routine Size: 217 bytes, Routine Base: \$CODES\$ + 1523


```

3379 3449 1 %sbttl 'classify_priv - classifies contents of priv vector'
3380 3450 1 routine classify_priv (privadr, uic) =
3381 3451 2 begin
3382 3452 2 ++
3383 3453 2
3384 3454 2
3385 3455 2 FUNCTIONAL DESCRIPTION:
3386 3456 2
3387 3457 2     Classifies privilege bits and reports the highest class available
3388 3458 2     to the owner of the supplied vector.
3389 3459 2
3390 3460 2 INPUTS:
3391 3461 2
3392 3462 2     PRIVADR - Address of the privilege vector
3393 3463 2
3394 3464 2 IMPLICIT INPUTS:
3395 3465 2
3396 3466 2     none
3397 3467 2
3398 3468 2 OUTPUTS:
3399 3469 2
3400 3470 2     none
3401 3471 2
3402 3472 2 IMPLICIT OUTPUTS:
3403 3473 2
3404 3474 2     none
3405 3475 2
3406 3476 2 ROUTINE VALUE:
3407 3477 2
3408 3478 2     none
3409 3479 2
3410 3480 2 SIDE EFFECTS:
3411 3481 2
3412 3482 2     none
3413 3483 2 --
3414 3484 2
3415 3485 2 map
3416 3486 2     privadr : ref block[8,byte];
3417 3487 2
3418 3488 2 bind
3419 3489 2     lstprva = cstring ('All'),
3420 3490 2     lstprvb = cstring ('Files'),
3421 3491 2     lstprvc = cstring ('System'),
3422 3492 2     lstprvd = cstring ('Devour'),
3423 3493 2     lstprve = cstring ('Group'),
3424 3494 2     lstprvf = cstring ('Normal'),
3425 3495 2     lstprvg = cstring ('None');
3426 3496 2
3427 3497 2 if .privadr[priv$u_cmkrnl]
3428 3498 2 or .privadr[priv$u_cmexec]
3429 3499 2 or .privadr[priv$u_sysnam]
3430 3500 2 or .privadr[priv$u_detach]
3431 3501 2 or .privadr[priv$u_log_io]
3432 3502 2 or .privadr[priv$u_setprv]
3433 3503 2 or .privadr[priv$u_phy_io]
3434 3504 2 or .privadr[priv$u_pfnmap]
3435 3505 2 or .privadr[priv$u_sysprv]
```


classify_priv - classifies contents of priv vec

```

3436 3506 2 or .prvadr[prv$readall]
3437 3507 2 or .prvadr[prv$bypass]
3438 3508 3 or (.uic<16, 16> lequ .EXE$GL_SYSUIC)
3439 3509 2 then return lstprva; ! Universal Privilege
3440 3510
3441 3511 2 if .prvadr[prv$diagnose]
3442 3512 2 or .prvadr[prv$volpro]
3443 3513 2 or .prvadr[prv$upgrade]
3444 3514 2 or .prvadr[prv$downgrade]
3445 3515 2 or .prvadr[prv$security]
3446 3516 2 or .prvadr[prv$sysgbl]
3447 3517 2 then return lstprvb; ! Potentially Comprimises File Security
3448 3518
3449 3519 2 if .prvadr[prv$pswapm]
3450 3520 2 or .prvadr[prv$setpri]
3451 3521 2 or .prvadr[prv$world]
3452 3522 2 or .prvadr[prv$oper]
3453 3523 2 then return lstprvc; ! Can Interfere with System Operation
3454 3524
3455 3525 2 if .prvadr[prv$grpnam]
3456 3526 2 or .prvadr[prv$allspool]
3457 3527 2 or .prvadr[prv$noacnt]
3458 3528 2 or .prvadr[prv$prmceb]
3459 3529 2 or .prvadr[prv$prmbbx]
3460 3530 2 or .prvadr[prv$exquota]
3461 3531 2 or .prvadr[prv$bugchk]
3462 3532 2 or .prvadr[prv$prmgbl]
3463 3533 2 or .prvadr[prv$shmem]
3464 3534 2 then return lstprvd; ! Can Devour System Resources
3465 3535
3466 3536 2 if .prvadr[prv$group]
3467 3537 2 or .prvadr[prv$grpdrv]
3468 3538 2 then return lstprve; ! Can Interfere with Group Members
3469 3539
3470 3540 2 if .prvadr[prv$tmpmbx]
3471 3541 2 or .prvadr[prv$netmbx]
3472 3542 2 or .prvadr[prv$mount]
3473 3543 2 then return lstprvf; ! Normal Privileges
3474 3544
3475 3545 2 lstprvg ! Not Privileged
3476 3546 1 end;

```

```
.PSECT SPLITS,NOWRT,NOEXE,2
```

					03	00303	P.ACR:	.BYTE	3
		6C	6C		41	00304		.ASCII	\All\
					05	00307	P.ACS:	.BYTE	5
	73	65	6C	69	46	00308		.ASCII	\Files\
					06	0030D	P.ACT:	.BYTE	6
6D	65	74	73	79	53	0030E		.ASCII	\System\
					06	00314	P.ACU:	.BYTE	6
72	75	6F	76	65	44	00315		.ASCII	\Devour\
					05	0031B	P.ACV:	.BYTE	5
	70	75	6F	72	47	0031C		.ASCII	\Group\
					06	00321	P.ACW:	.BYTE	6

6C 61 6D 72 6F 4E 00322
04 00328 P.ACX: .ASCII \Normal\
65 6E 6F 4E 00329 .BYTE 4
.ASCII \None\

LSTPRVA=
LSTPRVB=
LSTPRVC=
LSTPRVD=
LSTPRVE=
LSTPRVF=
LSTPRVG=
P.ACR
P.ACS
P.ACT
P.ACU
P.ACV
P.ACW
P.ACX

.PSECT \$CODE\$,NOWRT,2

				0004 00000 CLASSIFY PRIV:				
		52	00000000'	00	9E	00002	Save R2	3450
		50	04	AC	DO	00009	MOVAB LSTPRVA, R2	3497
		35		60	E8	00000	MOVL PRVADR, R0	
31		60		01	E0	00010	BLBS (R0), 1\$	3498
2D		60		02	E0	00014	BBS #1, (R0), 1\$	3499
29		60		05	E0	00018	BBS #2, (R0), 1\$	3500
				60	95	0001C	BBS #5, (R0), 1\$	3501
				25	19	0001E	TSTB (R0)	
				0E	E0	00020	BLSS 1\$	
21		60		16	E0	00024	BBS #14, (R0), 1\$	3502
1D		60		1A	E0	00028	BBS #22, (R0), 1\$	3503
19		60		1C	E0	0002C	BBS #26, (R0), 1\$	3504
15		60		03	E0	00030	BBS #28, (R0), 1\$	3505
10	04	A0		1D	E0	00035	BBS #3, 4(R0), 1\$	3506
0C		60		00	ED	00039	BBS #29, (R0), 1\$	3507
0A		10		05	1A	00043	CMPZV #0, #16, UIC+2, EXE\$GL_SYSUIC	3508
				62	9E	00045	BGTRU 2\$	
		51		6D	11	00048	MOVAB LSTPRVA, R1	3509
				06	E0	0004A	BRB 10\$	
16		60		15	E0	0004E	BBS #6, (R0), 3\$	3511
12		60		0E	E0	00052	BBS #21, (R0), 3\$	3512
		0E	04	A0	E8	00052	BLBS 4(R0), 3\$	3513
09	04	A0		01	E0	00056	BBS #1, 4(R0), 3\$	3514
04	04	A0		06	E0	0005B	BBS #6, 4(R0), 3\$	3515
06		60		19	E1	00060	BBC #25, (R0), 4\$	3516
		51	04	A2	9E	00064	MOVAB LSTPRVB, R1	3517
				4D	11	00068	BRB 10\$	
0C		60		0C	E0	0006A	BBS #12, (R0), 5\$	3519
08		60		0D	E0	0006E	BBS #13, (R0), 5\$	3520
		04	02	A0	E8	00072	BLBS 2(R0), 5\$	3521
06		60		12	E1	00076	BBC #18, (R0), 6\$	3522
		51	0A	A2	9E	0007A	MOVAB LSTPRVC, R1	3523
				37	11	0007E	BRB 10\$	
20		60		03	E0	00080	BBS #3, (R0), 7\$	3525
1C		60		04	E0	00084	BBS #4, (R0), 7\$	3526
18		60		09	E0	00088	BBS #9, (R0), 7\$	3527
14		60		0A	E0	0008C	BBS #10, (R0), 7\$	3528
10		60		0B	E0	00090	BBS #11, (R0), 7\$	3529
0C		60		13	E0	00094	BBS #19, (R0), 7\$	3530
08		60		17	E0	00098	BBS #23, (R0), 7\$	3531
		04	03	A0	E8	0009C	BLBS 3(R0), 7\$	3532

UAFMAIN
V04-000

B 4
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1

Page 124
(26)

classify_priv - classifies contents of priv vec

06	60	11	1B	E1	000A0	BBC	#27, (R0), 8\$	3533
	51		A2	9E	000A4	MOVAB	LSTPRVD, R1	3534
			0D	11	000A8	BRB	10\$	
	05	01	A0	E8	000AA	BLBS	1(R0), 9\$	3536
08	A0		02	E1	000AE	BBC	#2, 4(R0), 11\$	3537
	51	18	A2	9E	000B3	MOVAB	LSTPRVE, R1	3538
	50		51	D0	000B7	MOVL	R1, R0	
				04	000BA	RET		
			60	B5	000BB	TSTW	(R0)	3540
			08	19	000BD	BLSS	12\$	
04	60		14	E0	000BF	BBS	#20, (R0), 12\$	3541
05	60		11	E1	000C3	BBC	#17, (R0), 13\$	3542
	50	1E	A2	9E	000C7	MOVAB	LSTPRVF, R0	3543
				04	000CB	RET		
	50	25	A2	9E	000CC	MOVAB	LSTPRVG, R0	3451
			04	000D0	RET			3546

; Routine Size: 209 bytes, Routine Base: \$CODE\$ + 15FC

UAF
V04

display_full - writes the full user display

```
3547 1 %sbttl 'display_full - writes the full user display'
3548 1 routine display_full =
3549 2 begin
3550 2 ++
3551 2
3552 2
3553 2 FUNCTIONAL DESCRIPTION:
3554 2
3555 2     Display the fields of a UAF record.
3556 2
3557 2 INPUTS:
3558 2
3559 2     RABPTR - RMS data structure for the file
3560 2
3561 2 IMPLICIT INPUTS:
3562 2
3563 2     none
3564 2
3565 2 OUTPUTS:
3566 2
3567 2     none
3568 2
3569 2 IMPLICIT OUTPUTS:
3570 2
3571 2     none
3572 2
3573 2 ROUTINE VALUE:
3574 2
3575 2     none
3576 2
3577 2 SIDE EFFECTS:
3578 2
3579 2     none
3580 2 --
3581 2
3582 2
3583 2 Display strings.
3584 2
3585 2
3586 2 local
3587 2     status      : long ;
3588 2
3589 2 bind
3590 2     username    = cstring ('Username: !32AF Owner: !AC'),
3591 2     account     = cstring ('Account: !32AF UIC: !%U (!%I)'),
3592 2     cli_table   = cstring ('CLI: !32AC Tables: !AC'),
3593 2     default     = cstring ('Default: !AC!AC'),
3594 2     lgicmd      = cstring ('LGICMD: !AC'),
3595 2     flags       = cstring ('Login Flags: !AD'),
3596 2     flag_pad    = cstring (%char (cr), %char ((f), ' '),
3597 2     primdays   = cstring ('Primary days: !7(AC)'),
3598 2     secdays    = cstring ('Secondary days: !7(AC)'),
3599 2     norestrict  = cstring ('No access restrictions'),
3600 2     accesshdr1  = cstring (
3601 2     'Primary 000000000011111111112222 Secondary 000000000011111111112222'),
3602 2     accesshdr2  = cstring (
3603 2     'Day Hours 012345678901234567890123 Day Hours 012345678901234567890123'),
```



```
3535 3604 2 netaccess = cstring ('Network: !AD !AD'),
3536 3605 2 bataccess = cstring ('Batch: !AD !AD'),
3537 3606 2 locaccess = cstring ('Local: !AD !AD'),
3538 3607 2 diaaccess = cstring ('Dialup: !AD !AD'),
3539 3608 2 remaccess = cstring ('Remote: !AD !AD'),
3540 3609 2 expiration = cstring ('Expiration: !AD Pwdminimum: !2UL Login Fails: !5UL'),
3541 3610 2 pwddata = cstring ('Pwdlifetime: !AD Pwdchange: !AD !AD'),
3542 3611 2 lastlogin = cstring ('Last Login: !AD (interactive), !AD (non-interactive)'),
3543 3612 2 quota1 = cstring ('Maxjobs: !5UL Fillm: !5UL Bytlm: !9UL'),
3544 3613 2 quota2 = cstring ('Maxacctjobs: !5UL Shrfillm: !5UL Pbytlm: !9UL'),
3545 3614 2 quota3 = cstring ('Maxdetach: !5UL BIOlm: !5UL JTquota: !9UL'),
3546 3615 2 quota4 = cstring ('Prclm: !5UL DIOlm: !5UL WSdef: !9UL'),
3547 3616 2 quota5 = cstring ('Prio: !5UL ASTlm: !5UL WSquo: !9UL'),
3548 3617 2 quota6 = cstring ('Queprio: !5UL TQELm: !5UL WSextent: !9UL'),
3549 3618 2 quota7 = cstring ('CPU: !13AD Enqlm: !5UL Pgflquo: !9UL'),
3550 3619 2 privs = cstring ('Authorized Privileges: '),
3551 3620 2 defprivs = cstring ('Default Privileges: '),
3552 3621 2 nullstr = cstring (''),
3553 3622 2
3554 3623 2
3555 3624 2 mon = cstring (' Mon'),
3556 3625 2 tue = cstring (' Tue'),
3557 3626 2 wed = cstring (' Wed'),
3558 3627 2 thu = cstring (' Thu'),
3559 3628 2 fri = cstring (' Fri'),
3560 3629 2 sat = cstring (' Sat'),
3561 3630 2 sun = cstring (' Sun'),
3562 3631 2 noday = cstring (' '),
3563 3632 2
3564 3633 2 cputime = recbuf[uaf$l_cputim]; ! CPU limit in hundredths of a second
3565 3634 2
3566 3635 2 own
3567 3636 2 flags_vector : vector [32] preset (
3568 3637 2 [$bitposition (uaf$v_audit)] = cstring (' Audit'),
3569 3638 2 [$bitposition (uaf$v_captive)] = cstring (' Captive'),
3570 3639 2 [$bitposition (uaf$v_defcli)] = cstring (' Defcli'),
3571 3640 2 [$bitposition (uaf$v_disctly)] = cstring (' Disctly'),
3572 3641 2 [$bitposition (uaf$v_nomail)] = cstring (' Dismail'),
3573 3642 2 [$bitposition (uaf$v_dismail)] = cstring (' Disnewmail'),
3574 3643 2 [$bitposition (uaf$v_disreconnect)] = cstring (' Disreconnect'),
3575 3644 2 [$bitposition (uaf$v_disreport)] = cstring (' Disreport'),
3576 3645 2 [$bitposition (uaf$v_disacct)] = cstring (' Disuser'),
3577 3646 2 [$bitposition (uaf$v_diswelcome)] = cstring (' Diswelcome'),
3578 3647 2 [$bitposition (uaf$v_genpwd)] = cstring (' Genpwd'),
3579 3648 2 [$bitposition (uaf$v_lockpwd)] = cstring (' Lockpwd'),
3580 3649 2 [$bitposition (uaf$v_pwd_expired)] = cstring (' Pwd_expired'),
3581 3650 2 [$bitposition (uaf$v_pwd2_expired)] = cstring (' Pwd2_expired'),
3582 3651 2 );
3583 3652 2
3584 3653 2 local
3585 3654 2 count, count for string being built
3586 3655 2 lcount, count of chars on current line
3587 3656 2 string : vector [160, byte], buffer to build display string
3588 3657 2 flag_string : ref vector [,byte], pointer to flag string
3589 3658 2 delta_time : vector [long, 2], Scratch area for system delta time
3590 3659 2 PTR, Pointer into UAF$Q_PWD_DATE quadword
3591 3660 2 time1 : vector [17, byte], buffer for time string
```



```

: 3592      3661      2          time2          : vector [17, byte],      ! buffer for time string
: 3593      3662      2          time3          : vector [17, byte];      ! buffer for time string
: 3594      3663      2
: 3595      3664      2 builtin
: 3596      3665      2          emul;
: 3597      3666      2
: 3598      3667      2
: 3599      3668      2
: 3600      3669      2 if .str_wild and not fmg$match_name (namelen (uaf$s_username, recbuf[uaf$t_username]),
: 3601      3670      2                                recbuf[uaf$t_username],
: 3602      3671      2                                .match_token[en, match_token])
: 3603      3672      2 then return true;
: 3604      3673      2
: 3605      3674      2 found_match = true;
: 3606      3675      2
: 3607      3676      2 output_null;
: 3608      3677      2
: 3609      P 3678      2 faomac (username,
: 3610      P 3679      2          uaf$s_username, recbuf[uaf$t_username],
: 3611      3680      2          recbuf[uaf$t_owner]);
: 3612      3681      2
: 3613      P 3682      2 faomac (account,
: 3614      P 3683      2          uaf$s_account, recbuf[uaf$t_account],
: 3615      P 3684      2          .recbuf[uaf$l_uic],
: 3616      3685      2          .recbuf[uaf$l_uic]);
: 3617      3686      2
: 3618      P 3687      2 faomac (cli_table,
: 3619      P 3688      2          recbuf[uaf$t_defcli],
: 3620      3689      2          recbuf[uaf$t_clitables]);
: 3621      3690      2
: 3622      P 3691      2 faomac (default,
: 3623      P 3692      2          recbuf[uaf$t_defdev],
: 3624      3693      2          recbuf[uaf$t_defdir]);
: 3625      3694      2
: 3626      P 3695      2 faomac (lgicmd,
: 3627      3696      2          recbuf[uaf$t_lgicmd]);
: 3628      3697      2
: 3629      3698      2 count = 0;
: 3630      3699      2 lcount = .flags<0,8>;
: 3631      3700      2 incr j from 0 to 31
: 3632      3701      2 do
: 3633      3702      2     begin
: 3634      3703      2         if .bitvector [recbuf[uaf$l_flags], .j]
: 3635      3704      2         and (flag_string = .flags_vector [.j]) neq 0
: 3636      3705      2         then
: 3637      3706      2             begin
: 3638      3707      2                 if .lcount + .flag_string[0] gtru 80
: 3639      3708      2                 then
: 3640      3709      2                     begin
: 3641      3710      2                         ch$move (.flag_pad<0,8>, flag_pad+1, string[.count]);
: 3642      3711      2                         count = .count + .flag_pad<0,8>;
: 3643      3712      2                         lcount = .flag_pad<0,8> - 2;
: 3644      3713      2                     end;
: 3645      3714      2                 ch$move (.flag_string[0], flag_string[1], string[.count]);
: 3646      3715      2                 count = .count + .flag_string[0];
: 3647      3716      2                 lcount = .lcount + .flag_string[0];
: 3648      3717      2             end;
```



```

: 3649      3718      2      end;
: 3650      3719      2
: 3651      P 3720      2      faomac (flags,
: 3652      3721      2          .count, string);
: 3653      3722      2
: 3654      P 3723      2      faomac (primdays,
: 3655      P 3724      2          if .recbuf[uaf$u_monday]      then noday      else mon,
: 3656      P 3725      2          if .recbuf[uaf$u_tuesday]     then noday      else tue,
: 3657      P 3726      2          if .recbuf[uaf$u_wednesday]    then noday      else wed,
: 3658      P 3727      2          if .recbuf[uaf$u_thursday]     then noday      else thu,
: 3659      P 3728      2          if .recbuf[uaf$u_friday]      then noday      else fri,
: 3660      P 3729      2          if .recbuf[uaf$u_saturday]     then noday      else sat,
: 3661      3730      2          if .recbuf[uaf$u_sunday]      then noday      else sun);
: 3662      3731      2
: 3663      P 3732      2      faomac (secdays,
: 3664      P 3733      2          if .recbuf[uaf$u_monday]      then mon      else noday,
: 3665      P 3734      2          if .recbuf[uaf$u_tuesday]     then tue      else noday,
: 3666      P 3735      2          if .recbuf[uaf$u_wednesday]    then wed      else noday,
: 3667      P 3736      2          if .recbuf[uaf$u_thursday]     then thu      else noday,
: 3668      P 3737      2          if .recbuf[uaf$u_friday]      then fri      else noday,
: 3669      P 3738      2          if .recbuf[uaf$u_saturday]     then sat      else noday,
: 3670      3739      2          if .recbuf[uaf$u_sunday]      then sun      else noday);
: 3671      3740      2
: 3672      3741      2      if ch$fail (ch$find_not_ch (10*uaf$u_network_access_p, recbuf[uaf$b_network_access_p], 0))
: 3673      3742      2      then
: 3674      3743      2          begin
: 3675      3744      2              faomac (norestrict);
: 3676      3745      2          end
: 3677      3746      2      else
: 3678      3747      2          begin
: 3679      3748      2              faomac (accesshdr1);
: 3680      3749      2              faomac (accesshdr2);
: 3681      3750      2
: 3682      3751      2              display_hours (netaccess, recbuf[uaf$b_network_access_p]);
: 3683      3752      2              display_hours (batchaccess, recbuf[uaf$b_batch_access_p]);
: 3684      3753      2              display_hours (localaccess, recbuf[uaf$b_local_access_p]);
: 3685      3754      2              display_hours (diaaccess, recbuf[uaf$b_dialup_access_p]);
: 3686      3755      2              display_hours (remaccess, recbuf[uaf$b_remote_access_p]);
: 3687      3756      2          end;
: 3688      3757      2
: 3689      3758      2      convert_time (recbuf[uaf$q_expiration], 17, time1);
: 3690      P 3759      2      faomac (expiration,
: 3691      P 3760      2          17, time1,
: 3692      P 3761      2          .recbuf[uaf$b_pwd_length],
: 3693      3762      2          .recbuf[uaf$w_logfails]);
: 3694      3763      2
: 3695      3764      2      convert_time (recbuf[uaf$q_pwd_lifetime], 10, time1);
: 3696      3765      2      PTR = RECBUF[UAF$Q_PWD_DATE]; - ! Because quadwords have "no" width
: 3697      3766      2      if (..PTR eql -1) and (.PTR+&upval) eql -1 then
: 3698      3767      2          ch$move(17, uplit(%ascii' (pre-expired)'), TIME2)
: 3699      3768      2      else
: 3700      3769      2          CONVERT_TIME(.PTR 17, TIME2);
: 3701      3770      2      convert_time (recbuf[uaf$q_pwd2_date], 17, time3);
: 3702      P 3771      2      faomac (pwddata,
: 3703      P 3772      2          10, time1,
: 3704      P 3773      2          17, time2,
: 3705      P 3774      2          (if (. (recbuf[uaf$q_pwd2_date]+0) or . (recbuf[uaf$q_pwd2_date]+4)) eql 0
```



```
: 3706      P 3775      2      then 0
: 3707      3776      2      else 17), time3);
: 3708      3777
: 3709      3778      2      convert_time (recbuf[uaf$q_lastlogin_i], 17, time1);
: 3710      3779      2      convert_time (recbuf[uaf$q_lastlogin_n], 17, time2);
: 3711      P 3780      2      faomac (lastlogin,
: 3712      P 3781      2      17, time1,
: 3713      3782      2      17, time2);
: 3714      3783
: 3715      3784      2      emul (%ref (-200000), %ref (.cputime<1,31>),
: 3716      3785      2      %ref (if .cputime<0,1> then -100000 else 0), delta_time);
: 3717      3786      2      convert_time (delta_time, 13, time1);
: 3718      3787
: 3719      P 3788      2      faomac (quota1,
: 3720      P 3789      2      .recbuf[uaf$w_maxjobs],
: 3721      P 3790      2      .recbuf[uaf$w_fillm],
: 3722      3791      2      .recbuf[uaf$l_byt1m]);
: 3723      3792
: 3724      P 3793      2      faomac (quota2,
: 3725      P 3794      2      .recbuf[uaf$w_maxacctjobs],
: 3726      P 3795      2      .recbuf[uaf$w_shrfillm],
: 3727      3796      2      .recbuf[uaf$l_pbyt1m]);
: 3728      3797
: 3729      P 3798      2      faomac (quota3,
: 3730      P 3799      2      .recbuf[uaf$w_maxdetach],
: 3731      P 3800      2      .recbuf[uaf$w_bi1m],
: 3732      3801      2      .recbuf[uaf$l_jtquota]);
: 3733      3802
: 3734      P 3803      2      faomac (quota4,
: 3735      P 3804      2      .recbuf[uaf$w_prcnt],
: 3736      P 3805      2      .recbuf[uaf$w_diolm],
: 3737      3806      2      .recbuf[uaf$l_dfwsent]);
: 3738      3807
: 3739      P 3808      2      faomac (quota5,
: 3740      P 3809      2      .recbuf[uaf$b_pri],
: 3741      P 3810      2      .recbuf[uaf$w_ast1m],
: 3742      3811      2      .recbuf[uaf$l_wsquota]);
: 3743      3812
: 3744      P 3813      2      faomac (quota6,
: 3745      P 3814      2      .recbuf[uaf$b_quepri],
: 3746      P 3815      2      .recbuf[uaf$w_tqcnt],
: 3747      3816      2      .recbuf[uaf$l_wsextent]);
: 3748      3817
: 3749      P 3818      2      faomac (quota7,
: 3750      P 3819      2      13, time1,
: 3751      P 3820      2      .recbuf[uaf$w_eng1m],
: 3752      3821      2      .recbuf[uaf$l_pgflquota]);
: 3753      3822
: 3754      3823      2      faomac (privs);
: 3755      3824      2      print_priv (recbuf[uaf$q_priv]);
: 3756      3825
: 3757      3826      2      faomac (defprivs);
: 3758      3827      2      print_priv (recbuf[uaf$q_def_priv]);
: 3759      3828
: 3760      3829      2      !
: 3761      3830      2      ! Build a holder from the UAF record and display the rights
: 3762      3831      2      ! granted to it.
```



```
.PSECT SPLITS,NOWRT,NOEXE,2
```

[illegible]UAF
V04

UAF
VO4
00F

[illegible]

UAFMAIN
V04-000

display_full - writes the full user display

K 4
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 133
(27)

```

64 65 72 69 70 78 65 5F 64 77 50 20 007EE
0D 007FA P.AEX: .ASCII \ Pwd_expired\
65 72 64 65 72 69 70 78 65 5F 32 64 77 50 20 007FB P.AEX: .BYTE 13
69 70 78 65 2D 65 72 70 28 20 20 20 20 20 00808 P.AEY: .ASCII \ Pwd2_expired\
00 00 00 29 64 00817 (pre-expired)\<0><0><0>

```

.PSECT \$OWNS\$,NOEXE,2

```

00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0108C FLAGS_VECTOR:
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 010A4 .ADDRESS P.AEN, P.AEM, P.AEV, P.AEL, P.AES, -
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 010BC P.AET, P.AEP, P.AEO, P.AEU, P.AEW, P.AEX, -
010C4 .BLKB 72 P.AEK, P.AER, P.AEQ

```

```

USERNAME= P.ACY
ACCOUNT= P.ACZ
CLI_TABLE= P.ADA
DEFAULT= P.ADB
LGICMD= P.ADC
FLAGS= P.ADD
FLAG_PAD= P.ADE
PRIMDAYS= P.ADF
SECDAYS= P.ADG
NORESTRICT= P.ADH
ACCESSHDR1= P.ADI
ACCESSHDR2= P.ADJ
NETACCESS= P.ADK
BATAccess= P.ADL
LOCACCESS= P.ADM
DIAACCESS= P.ADN
REMAccess= P.ADO
EXPIRATION= P.ADP
PWDDATA= P.ADQ
LASTLOGIN= P.ADR
QUOTA1= P.ADS
QUOTA2= P.ADT
QUOTA3= P.ADU
QUOTA4= P.ADV
QUOTA5= P.ADW
QUOTA6= P.ADX
QUOTA7= P.ADY
PRIVS= P.ADZ
DEFPRIVS= P.AEA
NULLSTR= P.AEB
MON= P.AEC
TUE= P.AED
WED= P.AEE
THU= P.AEF
FRI= P.AEG
SAT= P.AEH
SUN= P.AEI
NODAY= P.AEJ
CPUTIME= RECBUF+556

```

.PSECT \$CODE\$,NOWRT,2

display_full - writes the full user display

L 4
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 134
(27)

		OFFC	00000	DISPLAY_FULL:			
				.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	3548	
	5E	FF1C	CE	9E 00002	MOVAB	-228(SP), SP	
	31	00000000'	00	E9 00007	BLBC	STR WILD, 1\$	3669
	55	00000000'	00	9E 0000E	MOVAB	MATCH_TOKEN, R5	3670
	53	00000000'	00	9E 00015	MOVAB	RECBUF+4, R3	
00000000' 00	20		20	3A 0001C	LOCC	#32, #32, RECBUF+4	3669
	52	E0	A0	9E 00024	MOVAB	-32(R0), R2	
	52		52	CE 00028	MNEGL	R2, R2	
	54	00000000'	00	D0 0002B	MOVL	MATCH_TOKENLEN, R4	3670
		00000000G	00	16 00032	JSB	FMG\$MATCH_NAME	
	04		50	E8 00038	BLBS	R0, 1\$	
	50		01	D0 0003B	MOVL	#1, R0	3672
			04	0003E	RET		
00000000'	00		01	D0 0003F	1\$: MOVL	#1, FOUND_MATCH	3674
	50	00000000'	00	D0 00046	MOVL	RABPTR, R0	
		22	A0	B4 0004D	CLRW	34(R0)	
			50	DD 00050	PUSHL	R0	
00000000G	00		01	FB 00052	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 00059	MOVZBW	USERNAME, FAODSC	3680
00000000'	00	00000000'	00	9E 00064	MOVAB	USERNAME+1, FAODSC+4	
		00000000'	00	9F 0006F	PUSHAB	RECBUF+84	
		00000000'	00	9F 00075	PUSHAB	RECBUF+4	
			20	DD 0007B	PUSHL	#32	
7E 00000000'	00	00000000'	00	9F 0007D	PUSHAB	DISDSC	
		00000000'	00	9F 00083	ADDL3	#34, RABPTR, -(SP)	
		00000000'	00	9F 0008B	PUSHAB	FAODSC	
00000000G	00		06	FB 00091	CALLS	#6, SYSSFAO	
		00000000'	00	DD 00098	PUSHL	RABPTR	
00000000G	00		01	FB 0009E	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 000A5	MOVZBW	ACCOUNT, FAODSC	3685
00000000'	00	00000000'	00	9E 000B0	MOVAB	ACCOUNT+1, FAODSC+4	
	50	00000000'	00	D0 000BB	MOVL	RECBUF+36, R0	
			50	DD 000C2	PUSHL	R0	
		00000000'	00	9F 000C6	PUSHAB	RECBUF+52	
			20	DD 000CC	PUSHL	#32	
7E 00000000'	00	00000000'	00	9F 000CE	PUSHAB	DISDSC	
		00000000'	00	9F 000DC	ADDL3	#34, RABPTR, -(SP)	
00000000G	00		07	FB 000E2	PUSHAB	FAODSC	
		00000000'	00	DD 000E9	CALLS	#7, SYSSFAO	
			01	FB 000EF	PUSHL	RABPTR	
00000000G	00		01	FB 000EF	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 000F6	MOVZBW	CLI_TABLE, FAODSC	3689
00000000'	00	00000000'	00	9E 00101	MOVAB	CLI_TABLE+1, FAODSC+4	
		00000000'	00	9F 0010C	PUSHAB	RECBUF+308	
		00000000'	00	9F 00112	PUSHAB	RECBUF+276	
		00000000'	00	9F 00118	PUSHAB	DISDSC	
7E 00000000'	00		22	C1 0011E	ADDL3	#34, RABPTR, -(SP)	
		00000000'	00	9F 00126	PUSHAB	FAODSC	
00000000G	00		05	FB 0012C	CALLS	#5, SYSSFAO	
		00000000'	00	DD 00133	PUSHL	RABPTR	
00000000G	00		01	FB 00139	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 00140	MOVZBW	DEFAULT, FAODSC	3693
00000000'	00	00000000'	00	9E 0014B	MOVAB	DEFAULT+1, FAODSC+4	
		00000000'	00	9F 00156	PUSHAB	RECBUF+148	
		00000000'	00	9F 0015C	PUSHAB	RECBUF+116	

display_full - writes the full user display

M 4
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 135
(27)

7E 00000000'	00	00000000'	00	9F 00162	PUSHAB	DISDSC		
			22	C1 00168	ADDL3	#34, RABPTR, -(SP)		
00000000G	00	00000000'	00	9F 00170	PUSHAB	FAODSC		
			05	FB 00176	CALLS	#5, SYSS\$FAO		
00000000G	00	00000000'	00	DD 0017D	PUSHL	RABPTR		
00000000'	00	00000000'	01	FB 00183	CALLS	#1, SYSS\$PUT		
00000000'	00	00000000'	00	9B 0018A	MOVZBW	LGICMD, FAODSC		3696
00000000'	00	00000000'	00	9E 00195	MOVAB	LGICMD+1, FAODSC+4		
		00000000'	00	9F 001A0	PUSHAB	RECBUF+212		
		00000000'	00	9F 001A6	PUSHAB	DISDSC		
7E 00000000'	00		22	C1 001AC	ADDL3	#34, RABPTR, -(SP)		
		00000000'	00	9F 001B4	PUSHAB	FAODSC		
00000000G	00		04	FB 001BA	CALLS	#4, SYSS\$FAO		
		00000000'	00	DD 001C1	PUSHL	RABPTR		
00000000G	00		01	FB 001C7	CALLS	#1, SYSS\$PUT		
			57	D4 001CE	CLRL	COUNT		3698
	5B	00000000'	00	9A 001D0	MOVZBL	FLAGS, R11		3699
	56		5B	D0 001D7	MOVL	R11, LCOUNT		
			59	D4 001DA	CLRL	J		3700
47 00000000'	00		59	E1 001DC	BBC	J, RECBUF+468, 4\$		3703
	5A	00000000'	00	49 D0 001E4	MOVL	FLAGS_VECTOR[J], FLAG_STRING		3704
			3D	13 001EC	BEQL	4\$		
	58		6A	9A 001EE	MOVZBL	(FLAG_STRING), R8		3707
	58		56	C0 001F1	ADDL2	LCOUNT, R8		
00000050	8F		58	D1 001F4	CMPL	R8, #80		
			18	1B 001FB	BLEQU	3\$		
	58	00000000'	00	9A 001FD	MOVZBL	FLAG_PAD, R8		3710
44 AE47 00000000'	00		58	28 00204	MOVC3	R8, FLAG_PAD+1, STRING[COUNT]		
	57		58	C0 0020E	ADDL2	R8, COUNT		3711
	56	FE	A8	9E 00211	MOVAB	-2(R8), LCOUNT		3712
	50		6A	9A 00215	MOVZBL	(FLAG_STRING), R0		3714
44 AE47 01	AA		50	28 00218	MOVC3	R0, 1(FLAG_STRING), STRING[COUNT]		
	50		6A	9A 0021F	MOVZBL	(FLAG_STRING), R0		3715
	57		50	C0 00222	ADDL2	R0, COUNT		
	50		6A	9A 00225	MOVZBL	(FLAG_STRING), R0		3716
	56		50	C0 00228	ADDL2	R0, LCOUNT		
AD	59		1F	F3 0022B	AOBLEQ	#31, J, 2\$		3700
00000000'	00		5B	B0 0022F	MOVW	R11, FAODSC		3721
00000000'	00	00000000'	00	9E 00236	MOVAB	FLAGS+1, FAODSC+4		
		44	AE	9F 00241	PUSHAB	STRING		
			57	DD 00244	PUSHL	COUNT		
		00000000'	00	9F 00246	PUSHAB	DISDSC		
7E 00000000'	00		22	C1 0024C	ADDL3	#34, RABPTR, -(SP)		
		00000000'	00	9F 00254	PUSHAB	FAODSC		
00000000G	00		05	FB 0025A	CALLS	#5, SYSS\$FAO		
		00000000'	00	DD 00261	PUSHL	RABPTR		
00000000G	00		01	FB 00267	CALLS	#1, SYSS\$PUT		
00000000'	00	00000000'	00	9B 0026E	MOVZBW	PRIMDAYS, FAODSC		3730
00000000'	00	00000000'	00	9E 00279	MOVAB	PRIMDAYS+1, FAODSC+4		
09 00000000'	00		06	E1 00284	BBC	#6, RECBUF+514, 5\$		
	50	00000000'	00	9E 0028C	MOVAB	NODAY, R0		
			07	11 00293	BRB	6\$		
	50	00000000'	00	9E 00295	MOVAB	SUN, R0		
			50	DD 0029C	PUSHL	R0		
09 00000000'	00		05	E1 0029E	BBC	#5, RECBUF+514, 7\$		
	50	00000000'	00	9E 002A6	MOVAB	NODAY, R0		
			07	11 002AD	BRB	8\$		

display_full - writes the full user display

N 4
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 136
(27)

	50	00000000'	00	9E	002AF	7\$:	MOVAB	SAT, R0	
			50	DD	002B6	8\$:	PUSHL	R0	
09	00000000'	00	04	E1	002B8		BBC	#4, RECBUF+514, 9\$	
	50	00000000'	00	9E	002C0		MOVAB	NODAY, R0	
			07	11	002C7		BRB	10\$	
	50	00000000'	00	9E	002C9	9\$:	MOVAB	FRI, R0	
			50	DD	002D0	10\$:	PUSHL	R0	
09	00000000'	00	03	E1	002D2		BBC	#3, RECBUF+514, 11\$	
	50	00000000'	00	9E	002DA		MOVAB	NODAY, R0	
			07	11	002E1		BRB	12\$	
	50	00000000'	00	9E	002E3	11\$:	MOVAB	THU, R0	
			50	DD	002EA	12\$:	PUSHL	R0	
09	00000000'	00	02	E1	002EC		BBC	#2, RECBUF+514, 13\$	
	50	00000000'	00	9E	002F4		MOVAB	NODAY, R0	
			07	11	002FB		BRB	14\$	
	50	00000000'	00	9E	002FD	13\$:	MOVAB	WED, R0	
			50	DD	00304	14\$:	PUSHL	R0	
09	00000000'	00	01	E1	00306		BBC	#1, RECBUF+514, 15\$	
	50	00000000'	00	9E	0030E		MOVAB	NODAY, R0	
			07	11	00315		BRB	16\$	
	50	00000000'	00	9E	00317	15\$:	MOVAB	TUE, R0	
			50	DD	0031E	16\$:	PUSHL	R0	
	09	00000000'	00	E9	00320		BLBC	RECBUF+514, 17\$	
	50	00000000'	00	9E	00327		MOVAB	NODAY, R0	
			07	11	0032E		BRB	18\$	
	50	00000000'	00	9E	00330	17\$:	MOVAB	MON, R0	
			50	DD	00337	18\$:	PUSHL	R0	
		00000000'	00	9F	00339		PUSHAB	DISDSC	
7E	00000000'	00	22	C1	0033F		ADDL3	#34, RABPTR, -(SP)	
		00000000'	00	9F	00347		PUSHAB	FAODSC	
	00000000G	00	0A	FB	0034D		CALLS	#10, SYSSFAO	
		00000000'	00	DD	00354		PUSHL	RABPTR	
	00000000G	00	01	FB	0035A		CALLS	#1, SYSSPUT	
	00000000'	00	00	9B	00361		MOVZBW	SECDAYS, FAODSC	
	00000000'	00	00	9E	0036C		MOVAB	SECDAYS+1, FAODSC+4	
09	00000000'	00	06	E1	00377		BBC	#6, RECBUF+514, 19\$	
	50	00000000'	00	9E	0037F		MOVAB	SUN, R0	
			07	11	00386		BRB	20\$	
	50	00000000'	00	9E	00388	19\$:	MOVAB	NODAY, R0	
			50	DD	0038F	20\$:	PUSHL	R0	
09	00000000'	00	05	E1	00391		BBC	#5, RECBUF+514, 21\$	
	50	00000000'	00	9E	00399		MOVAB	SAT, R0	
			07	11	003A0		BRB	22\$	
	50	00000000'	00	9E	003A2	21\$:	MOVAB	NODAY, R0	
			50	DD	003A9	22\$:	PUSHL	R0	
09	00000000'	00	04	E1	003AB		BBC	#4, RECBUF+514, 23\$	
	50	00000000'	00	9E	003B3		MOVAB	FRI, R0	
			07	11	003BA		BRB	24\$	
	50	00000000'	00	9E	003BC	23\$:	MOVAB	NODAY, R0	
			50	DD	003C3	24\$:	PUSHL	R0	
09	00000000'	00	03	E1	003C5		BBC	#3, RECBUF+514, 25\$	
	50	00000000'	00	9E	003CD		MOVAB	THU, R0	
			07	11	003D4		BRB	26\$	
	50	00000000'	00	9E	003D6	25\$:	MOVAB	NODAY, R0	
			50	DD	003DD	26\$:	PUSHL	R0	
09	00000000'	00	02	E1	003DF		BBC	#2, RECBUF+514, 27\$	
	50	00000000'	00	9E	003E7		MOVAB	WED, R0	

3739

display_full - writes the full user display

B 5
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 Page 137
(27)

		07 11 003EE	BRB 28\$		
	50 00000000'	00 9E 003F0	MOVAB NODAY, R0		
		50 DD 003F7	PUSHL R0		
09 00000000'	00	01 E1 003F9	BBC #1, RECBUF+514, 29\$		
	50 00000000'	00 9E 00401	MOVAB TUE, R0		
		07 11 00408	BRB 30\$		
	50 00000000'	00 9E 0040A	MOVAB NODAY, R0		
		50 DD 00411	PUSHL R0		
09 00000000'	00	00 E9 00413	BLBC RECBUF+514, 31\$		
	50 00000000'	00 9E 0041A	MOVAB MON, R0		
		07 11 00421	BRB 32\$		
	50 00000000'	00 9E 00423	MOVAB NODAY, R0		
		50 DD 0042A	PUSHL R0		
	00000000'	00 9F 0042C	PUSHAB DISDSC		
7E 00000000'	00	22 C1 00432	ADDL3 #34, RABPTR, -(SP)		
	00000000'	00 9F 0043A	PUSHAB FAODSC		
	00000000G	00 0A FB 00440	CALLS #10, SYSS\$FAO		
		00 DD 00447	PUSHL RABPTR		
	00000000G	00 01 FB 0044D	CALLS #1, SYSS\$PUT		
00000000'	52 00000000'	00 22 C1 00454	ADDL3 #34, RABPTR, R2		3744
	00 1E	00 00 3B 0045C	SKPC #0, #30, RECBUF+472		3741
		02 12 00464	BNEQ 33\$		
		51 D4 00466	CLRL R1		
		51 D5 00468	TSTL R1		
		3B 12 0046A	BNEQ 34\$		
	00000000'	00 00 9B 0046C	MOVZBW NORESTRICT, FAODSC		3744
	00000000'	00 00 9E 00477	MOVAB NORESTRICT+1, FAODSC+4		
		00 00 9F 00482	PUSHAB DISDSC		
		52 DD 00488	PUSHL R2		
	00000000'	00 00 9F 0048A	PUSHAB FAODSC		
		03 FB 00490	CALLS #3, SYSS\$FAO		
	00000000'	00 DD 00497	PUSHL RABPTR		
	00000000G	00 01 FB 0049D	CALLS #1, SYSS\$PUT		
		00D5 31 004A4	BRW 35\$		3741
	00000000'	00 00 9B 004A7	MOVZBW ACCESSHDR1, FAODSC		3748
	00000000'	00 00 9E 004B2	MOVAB ACCESSHDR1+1, FAODSC+4		
		00 00 9F 004BD	PUSHAB DISDSC		
		52 DD 004C3	PUSHL R2		
	00000000'	00 00 9F 004C5	PUSHAB FAODSC		
		03 FB 004CB	CALLS #3, SYSS\$FAO		
	00000000'	00 DD 004D2	PUSHL RABPTR		
	00000000G	00 01 FB 004D8	CALLS #1, SYSS\$PUT		
	00000000'	00 00 9B 004DF	MOVZBW ACCESSHDR2, FAODSC		3749
	00000000'	00 00 9E 004EA	MOVAB ACCESSHDR2+1, FAODSC+4		
		00 00 9F 004F5	PUSHAB DISDSC		
7E 00000000'	00	22 C1 004FB	ADDL3 #34, RABPTR, -(SP)		
		00 00 9F 00503	PUSHAB FAODSC		
	00000000G	00 03 FB 00509	CALLS #3, SYSS\$FAO		
		00 DD 00510	PUSHL RABPTR		
	00000000G	00 01 FB 00516	CALLS #1, SYSS\$PUT		
		00 00 9F 0051D	PUSHAB RECBUF+472		3751
		00 00 9F 00523	PUSHAB NETACCESS		
	00000000V	00 02 FB 00529	CALLS #2, DISPLAY_HOURS		
		00 00 9F 00530	PUSHAB RECBUF+478		3752
		00 00 9F 00536	PUSHAB BATAACCESS		
	00000000V	00 02 FB 0053C	CALLS #2, DISPLAY_HOURS		
		00 00 9F 00543	PUSHAB RECBUF+484		3753

display_full - writes the full user display

C 5
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 138
(27)

00000000V	00	00000000'	00	9F 00549	PUSHAB	LOCACCESS	:	
			02	FB 0054F	CALLS	#2, DISPLAY_HOURS	:	
		00000000'	00	9F 00556	PUSHAB	RECBUF+490	:	3754
		00000000'	00	9F 0055C	PUSHAB	DIAACCESS	:	
00000000V	00		02	FB 00562	CALLS	#2, DISPLAY_HOURS	:	
		00000000'	00	9F 00569	PUSHAB	RECBUF+496	:	3755
		00000000'	00	9F 0056F	PUSHAB	REMACCESS	:	
00000000V	00		02	FB 00575	CALLS	#2, DISPLAY_HOURS	:	
		28	AE	9F 0057C	PUSHAB	TIME1	:	3758
			11	DD 0057F	PUSHL	#17	:	
		00000000'	00	9F 00581	PUSHAB	RECBUF+364	:	
00000000V	00		03	FB 00587	CALLS	#3, CONVERT_TIME	:	
00000000'	00	00000000'	00	9B 0058E	MOVZBW	EXPIRATION, FAODSC	:	3762
00000000'	00	00000000'	00	9E 00599	MOVAB	EXPIRATION+1, FAODSC+4	:	
	7E	00000000'	00	3C 005A4	MOVZWL	RECBUF+356, -(SP)	:	
	7E	00000000'	00	9A 005AB	MOVZBL	RECBUF+362, -(SP)	:	
		30	AE	9F 005B2	PUSHAB	TIME1	:	
			11	DD 005B5	PUSHL	#17	:	
		00000000'	00	9F 005B7	PUSHAB	DISDSC	:	
7E 00000000'	00		22	C1 005BD	ADDL3	#34, RABPTR, -(SP)	:	
		00000000'	00	9F 005C5	PUSHAB	FAODSC	:	
00000000G	00		07	FB 005CB	CALLS	#7, SYSS\$FAO	:	
		00000000'	00	DD 005D2	PUSHL	RABPTR	:	
00000000G	00		01	FB 005D8	CALLS	#1, SYSS\$PUT	:	
		28	AE	9F 005DF	PUSHAB	TIME1	:	3764
			0A	DD 005E2	PUSHL	#10	:	
		00000000'	00	9F 005E4	PUSHAB	RECBUF+372	:	
00000000V	00		03	FB 005EA	CALLS	#3, CONVERT_TIME	:	
	50	00000000'	00	9E 005F1	MOVAB	RECBUF+380, PTR	:	3765
FFFFFFFF	8F		60	D1 005F8	CMPL	(PTR), #-1	:	3766
			15	12 005FF	BNEQ	36\$:	
FFFFFFFF	8F	04	A0	D1 00601	CMPL	4(PTR), #-1	:	
			0B	12 00609	BNEQ	36\$:	
14 AE 00000000'	00		11	28 0060B	MOVC3	#17, P.AEY, TIME2	:	3767
			0E	11 00614	BRB	37\$:	
		14	AE	9F 00616	PUSHAB	TIME2	:	3769
			11	DD 00619	PUSHL	#17	:	
			50	DD 0061B	PUSHL	PTR	:	
00000000V	00		03	FB 0061D	CALLS	#3, CONVERT_TIME	:	
			5E	DD 00624	PUSHL	SP	:	3770
			11	DD 00626	PUSHL	#17	:	
		00000000'	00	9F 00628	PUSHAB	RECBUF+388	:	
00000000V	00		03	FB 0062E	CALLS	#3, CONVERT_TIME	:	
00000000'	00	00000000'	00	9B 00635	MOVZBW	PWDDATA, FAODSC	:	3776
00000000'	00	00000000'	00	9E 00640	MOVAB	PWDDATA+1, FAODSC+4	:	
			5E	DD 0064B	PUSHL	SP	:	
50 00000000'	00	00000000'	00	C9 0064D	BISL3	RECBUF+392, RECBUF+388, R0	:	
			04	12 00659	BNEQ	38\$:	
			7E	D4 0065B	CLRL	-(SP)	:	
			02	11 0065D	BRB	39\$:	
			11	DD 0065F	PUSHL	#17	:	
		1C	AE	9F 00661	PUSHAB	TIME2	:	
			11	DD 00664	PUSHL	#17	:	
		38	AE	9F 00666	PUSHAB	TIME1	:	
			0A	DD 00669	PUSHL	#10	:	
		00000000'	00	9F 0066B	PUSHAB	DISDSC	:	
7E 00000000'	00		22	C1 00671	ADDL3	#34, RABPTR, -(SP)	:	

		00000000'	00	9F 00679	PUSHAB	FAODSC		
		00000000G	00	09 FB 0067F	CALLS	#9, SYSSFAO		
		00000000'	00	DD 00686	PUSHL	RABPTR		
		00000000G	00	01 FB 0068C	CALLS	#1, SYSSPUT		
		28	AE	9F 00693	PUSHAB	TIME1	3778	
			11	DD 00696	PUSHL	#17		
		00000000'	00	9F 00698	PUSHAB	RECBUF+396		
		00000000V	00	03 FB 0069E	CALLS	#3, CONVERT_TIME		
		14	AE	9F 006A5	PUSHAB	TIME2	3779	
			11	DD 006A8	PUSHL	#17		
		00000000'	00	9F 006AA	PUSHAB	RECBUF+404		
		00000000V	00	03 FB 006B0	CALLS	#3, CONVERT_TIME		
		00000000'	00	9B 006B7	MOVZBW	LASTLOGIN, FAODSC	3782	
		00000000'	00	9E 006C2	MOVAB	LASTLOGIN+1, FAODSC+4		
		14	AE	9F 006CD	PUSHAB	TIME2		
			11	DD 006D0	PUSHL	#17		
		30	AE	9F 006D2	PUSHAB	TIME1		
			11	DD 006D5	PUSHL	#17		
		00000000'	00	9F 006D7	PUSHAB	DISDSC		
7E	00000000'	00	22	C1 006DD	ADDL3	#34, RABPTR, -(SP)		
	00000000G	00	07	FB 006E5	PUSHAB	FAODSC		
	00000000'	00	00	DD 006F2	CALLS	#7, SYSSFAO		
	00000000G	00	01	FB 006F8	PUSHL	RABPTR		
51	00000000'	00	01	EF 006FF	CALLS	#1, SYSSPUT		
	1F	00	01	E9 00708	EXTZV	#1, #31, CPUTIME, R1	3784	
	09	00000000'	00	8F D0 0070F	BLBC	CPUTIME, 40\$	3785	
	50	FFFE7960	02	11 00716	MOVL	#-100000, R0		
			50	D4 00718	BRB	41\$		
			8F	7A 0071A	CLRL	R0		
3C	AE	50	51	FFFCF2C0	EMUL	#-200000, R1, R0, DELTA_TIME	3784	
		28	AE	9F 00724	PUSHAB	TIME1	3786	
			0D	DD 00727	PUSHL	#13		
		44	AE	9F 00729	PUSHAB	DELTA_TIME		
	00000000V	00	03	FB 0072C	CALLS	#3, CONVERT_TIME		
	00000000'	00	00	9B 00733	MOVZBW	QUOTA1, FAODSC	3791	
	00000000'	00	00	9E 0073E	MOVAB	QUOTA1+1, FAODSC+4		
		00	00	DD 00749	PUSHL	RECBUF+560		
	7E	00000000'	00	3C 0074F	MOVZWL	RECBUF+536, -(SP)		
	7E	00000000'	00	3C 00756	MOVZWL	RECBUF+518, -(SP)		
		00000000'	00	9F 0075D	PUSHAB	DISDSC		
7E	00000000'	00	22	C1 00763	ADDL3	#34, RABPTR, -(SP)		
	0C000000'	00	00	9F 0076B	PUSHAB	FAODSC		
	00000000G	00	06	FB 00771	CALLS	#6, SYSSFAO		
	00000000'	00	00	DD 00778	PUSHL	RABPTR		
	00000000G	00	01	FB 0077E	CALLS	#1, SYSSPUT		
	00000000'	00	00	9B 00785	MOVZBW	QUOTA2, FAODSC	3796	
	00000000'	00	00	9E 00790	MOVAB	QUOTA2+1, FAODSC+4		
		00	00	DD 0079B	PUSHL	RECBUF+564		
	7E	00000000'	00	3C 007A1	MOVZWL	RECBUF+538, -(SP)		
	7E	00000000'	00	3C 007A8	MOVZWL	RECBUF+520, -(SP)		
		00000000'	00	9F 007AF	PUSHAB	DISDSC		
7E	00000000'	00	22	C1 007B5	ADDL3	#34, RABPTR, -(SP)		
	00000000'	00	00	9F 007BD	PUSHAB	FAODSC		
	00000000G	00	06	FB 007C3	CALLS	#6, SYSSFAO		
	00000000'	00	00	DD 007CA	PUSHL	RABPTR		
	00000000G	00	01	FB 007D0	CALLS	#1, SYSSPUT		
	00000000'	00	00	9B 007D7	MOVZBW	QUOTA3, FAODSC	3801	

display_full - writes the full user display

E 5
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 140
(27)

00000000'	00	00000000'	00	9E 007E2	MOVAB	QUOTA3+1, FAODSC+4	
		00000000'	00	DD 007ED	PUSHL	RECBUF+568	
	7E	00000000'	00	3C 007F3	MOVZWL	RECBUF+526, -(SP)	
	7E	00000000'	00	3C 007FA	MOVZWL	RECBUF+522, -(SP)	
		00000000'	00	9F 00801	PUSHAB	DISDSC	
7E 00000000'	00	00000000'	22	C1 00807	ADDL3	#34, RABPTR, -(SP)	
		00000000'	00	9F 0080F	PUSHAB	FAODSC	
00000000G	00	00000000'	06	FB 00815	CALLS	#6, SYSSFAO	
		00000000'	00	DD 0081C	PUSHL	RABPTR	
00000000G	00	00000000'	01	FB 00822	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 00829	MOVZBW	QUOTA4, FAODSC	3806
00000000'	00	00000000'	00	9E 00834	MOVAB	QUOTA4+1, FAODSC+4	
		00000000'	00	DD 0083F	PUSHL	RECBUF+544	
	7E	00000000'	00	3C 00845	MOVZWL	RECBUF+528, -(SP)	
	7E	00000000'	00	3C 0084C	MOVZWL	RECBUF+524, -(SP)	
		00000000'	00	9F 00853	PUSHAB	DISDSC	
7E 00000000'	00	00000000'	22	C1 00859	ADDL3	#34, RABPTR, -(SP)	
		00000000'	00	9F 00861	PUSHAB	FAODSC	
00000000G	00	00000000'	06	FB 00867	CALLS	#6, SYSSFAO	
		00000000'	00	DD 0086E	PUSHL	RABPTR	
00000000G	00	00000000'	01	FB 00874	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 0087B	MOVZBW	QUOTA5, FAODSC	3811
00000000'	00	00000000'	00	9E 00886	MOVAB	QUOTA5+1, FAODSC+4	
		00000000'	00	DD 00891	PUSHL	RECBUF+540	
	7E	00000000'	00	3C 00897	MOVZWL	RECBUF+532, -(SP)	
	7E	00000000'	00	9A 0089E	MOVZBL	RECBUF+516, -(SP)	
		00000000'	00	9F 008A5	PUSHAB	DISDSC	
7E 00000000'	00	00000000'	22	C1 008AB	ADDL3	#34, RABPTR, -(SP)	
		00000000'	00	9F 008B3	PUSHAB	FAODSC	
00000000G	00	00000000'	06	FB 008B9	CALLS	#6, SYSSFAO	
		00000000'	00	DD 008C0	PUSHL	RABPTR	
00000000G	00	00000000'	01	FB 008C6	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 008CD	MOVZBW	QUOTA6, FAODSC	3816
00000000'	00	00000000'	00	9E 008D8	MOVAB	QUOTA6+1, FAODSC+4	
		00000000'	00	DD 008E3	PUSHL	RECBUF+548	
	7E	00000000'	00	3C 008E9	MOVZWL	RECBUF+530, -(SP)	
	7E	00000000'	00	9A 008F0	MOVZBL	RECBUF+517, -(SP)	
		00000000'	00	9F 008F7	PUSHAB	DISDSC	
7E 00000000'	00	00000000'	22	C1 008FD	ADDL3	#34, RABPTR, -(SP)	
		00000000'	00	9F 00905	PUSHAB	FAODSC	
00000000G	00	00000000'	06	FB 0090B	CALLS	#6, SYSSFAO	
		00000000'	00	DD 00912	PUSHL	RABPTR	
00000000G	00	00000000'	01	FB 00918	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 0091F	MOVZBW	QUOTA7, FAODSC	3821
00000000'	00	00000000'	00	9E 0092A	MOVAB	QUOTA7+1, FAODSC+4	
		00000000'	00	DD 00935	PUSHL	RECBUF+552	
	7E	00000000'	00	3C 0093B	MOVZWL	RECBUF+534, -(SP)	
		30	AE	9F 00942	PUSHAB	TIME1	
			0D	DD 00945	PUSHL	#13	
		00000000'	00	9F 00947	PUSHAB	DISDSC	
7E 00000000'	00	00000000'	22	C1 0094D	ADDL3	#34, RABPTR, -(SP)	
		00000000'	00	9F 00955	PUSHAB	FAODSC	
00000000G	00	00000000'	07	FB 0095B	CALLS	#7, SYSSFAO	
		00000000'	00	DD 00962	PUSHL	RABPTR	
00000000G	00	00000000'	01	FB 00968	CALLS	#1, SYSSPUT	
00000000'	00	00000000'	00	9B 0096F	MOVZBW	PRIVS, FAODSC	3823
00000000'	00	00000000'	00	9E 0097A	MOVAB	PRIVS+1, FAODSC+4	

display_full - writes the full user display

F 5
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 Page 141
(27)

7E 00000000'	00	00000000'	00	9F 00985	PUSHAB	DISDSC	:	
			22	C1 0098B	ADDL3	#34, RABPTR, -(SP)	:	
00000000G	00	00000000'	00	9F 00993	PUSHAB	FAODSC	:	
			03	FB 00999	CALLS	#3, SYSSFA0	:	
00000000G	00	00000000'	00	DD 009A0	PUSHL	RABPTR	:	
			01	FB 009A6	CALLS	#1, SYSSPUT	:	
00000000V	00	00000000'	00	9F 009AD	PUSHAB	RECBUF+412	:	3824
00000000'	00	00000000'	01	FB 009B3	CALLS	#1, PRINT_PRIV	:	
00000000'	00	00000000'	00	9B 009BA	MOVZBW	DEFPRIVS, FAODSC	:	3826
00000000'	00	00000000'	00	9E 009C5	MOVAB	DEFPRIVS+1, FAODSC+4	:	
		00000000'	00	9F 009D0	PUSHAB	DISDSC	:	
7E 00000000'	00		22	C1 009D6	ADDL3	#34, RABPTR, -(SP)	:	
		00000000'	00	9F 009DE	PUSHAB	FAODSC	:	
00000000G	00		03	FB 009E4	CALLS	#3, SYSSFA0	:	
		00000000'	00	DD 009EB	PUSHL	RABPTR	:	
00000000G	00		01	FB 009F1	CALLS	#1, SYSSPUT	:	
		00000000'	00	9F 009F8	PUSHAB	RECBUF+420	:	3827
00000000V	00		01	FB 009FE	CALLS	#1, PRINT_PRIV	:	
	1B	00000000'	00	E9 00A05	BLBC	RDB_EXISTS, 42\$:	3833
00000000G	00		00	FB 00A0C	CALLS	#0, UAF\$BUILD HOLDER	:	3836
00000000G	00		01	90 00A13	MOVB	#1, RDB_HEADER_FLAG	:	3837
		00000000G	00	9F 00A1A	PUSHAB	HOLDER	:	3838
00000000G	00		01	FB 00A20	CALLS	#1, UAF\$WRITE_RIGHTS	:	
			04	00A27 42\$:	RET		:	3842

; Routine Size: 2600 bytes, Routine Base: \$CODE\$ + 16CD

display_hours - display hourly restrictions

```

: 3775 3843 1 %sbttl 'display_hours - display hourly restrictions'
: 3776 3844 1 routine display_hours (format_string, hour_vector) : novalue =
: 3777 3845 2 begin
: 3778 3846 2
: 3779 3847 2 ++
: 3780 3848 2
: 3781 3849 2 FUNCTIONAL DESCRIPTION:
: 3782 3850 2
: 3783 3851 2     Displays the hourly access for primary and secondary days
: 3784 3852 2     for one access type.
: 3785 3853 2
: 3786 3854 2 INPUTS:
: 3787 3855 2
: 3788 3856 2     format_string: address of FAO string for display
: 3789 3857 2     hour_vector: address of UAF record hourly vector
: 3790 3858 2     RABPTR - RMS data structure for the file
: 3791 3859 2
: 3792 3860 2 IMPLICIT INPUTS:
: 3793 3861 2
: 3794 3862 2     none
: 3795 3863 2
: 3796 3864 2 OUTPUTS:
: 3797 3865 2
: 3798 3866 2     none
: 3799 3867 2
: 3800 3868 2 IMPLICIT OUTPUTS:
: 3801 3869 2
: 3802 3870 2     none
: 3803 3871 2
: 3804 3872 2 ROUTINE VALUE:
: 3805 3873 2
: 3806 3874 2     none
: 3807 3875 2
: 3808 3876 2 SIDE EFFECTS:
: 3809 3877 2
: 3810 3878 2     none
: 3811 3879 2 --
: 3812 3880 2
: 3813 3881 2
: 3814 3882 2 Display strings.
: 3815 3883 2
: 3816 3884 2
: 3817 3885 2 map
: 3818 3886 2     hour_vector : ref bitvector;
: 3819 3887 2
: 3820 3888 2 literal
: 3821 3889 2     yeschar      = '#';
: 3822 3890 2     nochar       = '-';
: 3823 3891 2
: 3824 3892 2 bind
: 3825 3893 2     noaccess      = cstring ('----- No access -----'),
: 3826 3894 2     fullaccess    = cstring ('##### Full access #####');
: 3827 3895 2
: 3828 3896 2 local
: 3829 3897 2     pri_access    : vector [24, byte],    ! Character string for primary access
: 3830 3898 2     sec_access    : vector [24, byte];    ! Character string for secondary access
: 3831 3899 2
```


P

•

				.PSECT		\$CODE\$,NOWRT,2	
				01FC 00000		DISPLAY_HOURS:	
				.WORD		Save R2,R3,R4,R5,R6,R7,R8	
58	00000000	00	9E	00002	MOVAB	FULLACCESS+1, R8	3844
57	00000000	00	9E	00009	MOVAB	FAODSC, R7	
5E		30	C2	00010	SUBL2	#48, SP	
56	08	AC	D0	00013	MOVL	HOUR VECTOR, R6	3900
18		00	ED	00017	CMPZV	#0, #24, (R6), #0	
		07	12	0001C	BNEQ	1\$	
18	AE	68	18	28	0001E	MOV C3	#24, FULLACCESS+1, PRI_ACCESS
		29	11	00023	BRB	6\$	3901

UAFMAIN
V04-000

display_hours - display hourly restrictions

I 5
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1

Page 144
(28)

00FFFFFF	8F	66	18	00	ED	00025	1\$:	CMPZV	#0, #24, (R6), #16777215	:	3902	
		18	AE	E7	A8	08	12	BNEQ	2\$:	3903	
				18	28	00030		MOVC3	#24, NOACCESS+1, PRI_ACCESS	:	3904	
				16	11	00036		BRB	6\$:	3907	
		07		50	D4	00038	2\$:	CLRL	J	:	3908	
				50	E1	0003A	3\$:	BBC	J, (R6), 4\$:	3909	
				2D	90	0003E		MOVB	#45, PRI_ACCESS[J]	:	3904	
				05	11	00043		BRB	5\$:	3912	
				23	90	00045	4\$:	MOVB	#35, PRI_ACCESS[J]	:	3913	
		EC		17	F3	0004A	5\$:	AOBLEQ	#23, J, 3\$:	3914	
		66		18	EF	0004E	6\$:	EXTZV	#24, #24, (R6), R0	:	3915	
				06	12	00053		BNEQ	7\$:	3916	
		6E		18	28	00055		MOVC3	#24, FULLACCESS+1, SEC_ACCESS	:	3919	
				28	11	00059		BRB	12\$:	3920	
		00FFFFFF	8F	50	D1	0005B	7\$:	CMPL	R0, #16777215	:	3921	
				07	12	00062		BNEQ	8\$:	3916	
		6E		18	28	00064		MOVC3	#24, NOACCESS+1, SEC_ACCESS	:	3927	
				18	11	00069		BRB	12\$:		
				50	D4	0006B	8\$:	CLRL	J	:		
				A0	9E	0006D	9\$:	MOVAB	24(R0), R1	:		
		06		51	E1	00071		BBC	R1, (R6), 10\$:		
				2D	90	00075		MOVB	#45, SEC_ACCESS[J]	:		
				04	11	00079		BRB	11\$:		
				23	90	0007B	10\$:	MOVB	#35, SEC_ACCESS[J]	:		
		EA		17	F3	0007F	11\$:	AOBLEQ	#23, J, 9\$:		
				04	BC	9B	00083	12\$:	MOVZBW	@FORMAT_STRING, FAODSC	:	
		04	A7	04	AC	01	C1	00087	ADDL3	#1, FORMAT_STRING, FAODSC+4	:	
				5E	DD	0008D		PUSHL	SP	:		
				18	DD	0008F		PUSHL	#24	:		
				20	AE	9F	00091	PUSHAB	PRI_ACCESS	:		
				18	DD	00094		PUSHL	#24	:		
		7E		F8	A7	9F	00096	PUSHAB	DISDSC	:		
				22	C1	00099		ADDL3	#34, RABPTR, -(SP)	:		
				57	DD	0009E		PUSHL	R7	:		
		00000000G	00	07	FB	000A0		CALLS	#7, SYSSFAO	:		
				08	A7	DD	000A7	PUSHL	RABPTR	:		
		00000000G	00	01	FB	000AA		CALLS	#1, SYSSPUT	:		
				04	00	000B1		RET		:	3928	

; Routine Size: 178 bytes, Routine Base: \$CODE\$ + 20F5

convert_time - convert time value to string

```
3862 3929 1 %sbttl 'convert_time - convert time value to string'
3863 3930 1 routine convert_time (time, length, buffer) : novalue =
3864 3931 2 begin
3865 3932 3
3866 3933 4 ++
3867 3934 5
3868 3935 6 FUNCTIONAL DESCRIPTION:
3869 3936 7
3870 3937 8     Converts the binary time value into a string, substituting
3871 3938 9     the string " (none)" if the value is zero.
3872 3939 10
3873 3940 11 INPUTS:
3874 3941 12
3875 3942 13     time: address of quadword time
3876 3943 14     length: length of output string
3877 3944 15     buffer: address of output buffer
3878 3945 16
3879 3946 17 IMPLICIT INPUTS:
3880 3947 18
3881 3948 19     none
3882 3949 20
3883 3950 21 OUTPUTS:
3884 3951 22
3885 3952 23     none
3886 3953 24
3887 3954 25 IMPLICIT OUTPUTS:
3888 3955 26
3889 3956 27     none
3890 3957 28
3891 3958 29 ROUTINE VALUE:
3892 3959 30
3893 3960 31     none
3894 3961 32
3895 3962 33 SIDE EFFECTS:
3896 3963 34
3897 3964 35     none
3898 3965 36
3899 3966 37 --
3900 3967 38 map
3901 3968 39     time                : ref vector;
3902 3969 40
3903 3970 41 local
3904 3971 42     string_desc          : vector [2];  ! descriptor for buffer
3905 3972 43
3906 3973 44 if (.time[0] or .time[1]) eql 0
3907 3974 45 then
3908 3975 46     begin
3909 3976 47         ch$fill (' ', .length-6, .buffer);
3910 3977 48         ch$move (6, uplit byte ('(none)'), .buffer+.length-6);
3911 3978 49     end
3912 3979 50
3913 3980 51 else
3914 3981 52     begin
3915 3982 53         string_desc[0] = .length;
3916 3983 54         string_desc[1] = .buffer;
3917 3984 55         $asctim (timadr = .time, timbuf = string_desc);
3918 3985 56     end;
```



```
convert_time - convert time value to string
3986 1 end;
```

VAX-11 Bliss-32 V4.0-742 Page 146
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (29)

Address	Disassembly	Comment	Symbol
29 65 6E 6F 6E 28 0084E	P.AFB: .ASCII \ (none) \		
	.EXTRN SYSS\$ASCTIM		
	.PSECT \$CODE\$,NOWRT,2		
007C 00000	CONVERT_TIME:		
5E	08 C2 00002	.WORD	Save R2,R3,R4,R5,R6
56	04 AC D0 00005	SUBL2	#8, SP
66	04 A6 C9 00009	MOVL	TIME, R6
	1C 12 0000E	BISL3	4(R6), (R6), R0
	06 C3 00010	BNEQ	1\$
AC	00 2C 00015	SUBL3	#6, LENGTH, R0
6E	0C BC 0001A	MOVC5	#0, (SP), #32, R0, @BUFFER
	08 AC C1 0001C	ADDL3	LENGTH, BUFFER, R0
AC	06 28 00022	MOVC3	#6, P.AFB, -6(R0)
00	04 0002B	RET	
6E	08 AC 7D 0002C	MOVQ	LENGTH, STRING_DESC
	7E D4 00030	CLRL	-(SP)
	56 DD 00032	PUSHL	R6
	08 AE 9F 00034	PUSHAB	STRING_DESC
	7E D4 00037	CLRL	-(SP)
OG 00	04 FB 00039	CALLS	#4, SYSS\$ASCTIM
	04 00040	RET	

; Routine Size: 65 bytes, Routine Base: \$CODE\$ + 21A7

print_priv - print privilege bits

```
3921 3987 1 %sbttl 'print_priv - print privilege bits'
3922 3988 1 routine print_priv (prvadr) : novalue =
3923 3989 2 begin
3924 3990 2
3925 3991 2 ++
3926 3992 2
3927 3993 2 FUNCTIONAL DESCRIPTION:
3928 3994 2
3929 3995 2 Routine to output the names of the privilege bits set
3930 3996 2 in the privilege vector supplied.
3931 3997 2
3932 3998 2 INPUTS:
3933 3999 2
3934 4000 2 PRVADR - Address of the privilege vector
3935 4001 2
3936 4002 2 IMPLICIT INPUTS:
3937 4003 2
3938 4004 2 PRV$AB_NAMES - table of privilege names and bit numbers
3939 4005 2
3940 4006 2 OUTPUTS:
3941 4007 2
3942 4008 2 none
3943 4009 2
3944 4010 2 IMPLICIT OUTPUTS:
3945 4011 2
3946 4012 2 none
3947 4013 2
3948 4014 2 ROUTINE VALUE:
3949 4015 2
3950 4016 2 none
3951 4017 2
3952 4018 2 SIDE EFFECTS:
3953 4019 2
3954 4020 2 none
3955 4021 2
3956 4022 2 --
3957 4023 2
3958 4024 2 local
3959 4025 2 pointer, ! current location in PRV$AB_NAMES
3960 4026 2 prvcnt, ! number of names in DISBUF
3961 4027 2 symlen, ! length of bit name string
3962 4028 2 symmin, ! minimum symbol length
3963 4029 2 symval; ! value (bit number)
3964 4030 2
3965 4031 2
3966 4032 2 Initialize the buffer.
3967 4033 2
3968 4034 2
3969 4035 2 disbuf = ' '; ! insert blank at start
3970 4036 2 prvcnt = 0;
3971 4037 2 rabptr[rab$w_rsz] = 1;
3972 4038 2 pointer = prv$ab_names; ! point to symbol name table
3973 4039 2
3974 4040 2 while (symmin = . (.pointer)<0,8>) neq 0 ! pick up min symbol size
3975 4041 2 do
3976 4042 2 begin
3977 4043 2
```


print_priv - print privilege bits

```

3978 4044 3  |
3979 4045 3  | Pick up the next bit name and number. If the bit is set, insert
3980 4046 3  | the bit name into the buffer. When the buffer fills up output them
3981 4047 3  | to the user.
3982 4048 3  |
3983 4049 3  |
3984 4050 3  | pointer = .pointer + 1;
3985 4051 3  | symval = . (.pointer)<0,8>; ! get bit number
3986 4052 3  | pointer = .pointer + 1;
3987 4053 3  | symlen = . (.pointer)<0,8>; ! get name string length
3988 4054 3  | pointer = .pointer + 1; ! point to string
3989 4055 3  | if . (.prvadr)<.symval,1>
3990 4056 3  | AND CH$NEQ(.SYMLN, .POINTER, 7, UPLIT('UPGRADE')) **
3991 4057 3  | AND CH$NEQ(.SYMLN, .POINTER, 9, UPLIT('DOWNGRADE')) **
3992 4058 3  | AND CH$NEQ(.SYMLN, .POINTER, 6, UPLIT('TMPJNL')) **
3993 4059 3  | AND CH$NEQ(.SYMLN, .POINTER, 6, UPLIT('PRMJNL')) **
3994 4060 3  | then
3995 4061 4  | begin
3996 4062 4  |
3997 4063 4  |
3998 4064 4  | Bit is set. See if there's room in the buffer and insert it if so,
3999 4065 4  | else output the buffer and start from scratch.
4000 4066 4  |
4001 4067 4  |
4002 4068 4  | if .rabptr[rab$w_rsz] + .symlen geq 64
4003 4069 4  | then
4004 4070 5  | begin
4005 4071 5  | $put (rab = .rabptr);
4006 4072 5  | prvcnt = 0;
4007 4073 5  | rabptr[rab$w_rsz] = 1;
4008 4074 4  | end;
4009 4075 4  |
4010 4076 4  |
4011 4077 4  | Insert a blank and append symbol name.
4012 4078 4  |
4013 4079 4  |
4014 4080 4  | disbuf[.rabptr[rab$w_rsz]] = %char (' ');
4015 4081 4  | rabptr[rab$w_rsz] = .rabptr[rab$w_rsz] + 1;
4016 4082 4  | ch$move (.symlen, .pointer, disbuf[.rabptr[rab$w_rsz]]);
4017 4083 4  | rabptr[rab$w_rsz] = .rabptr[rab$w_rsz] + .symlen;
4018 4084 4  | prvcnt = .prvcnt + 1; ! one more name in buffer
4019 4085 4  | end;
4020 4086 4  |
4021 4087 4  | pointer = .pointer + .symlen; ! update table pointer over name
4022 4088 4  | end;
4023 4089 4  |
4024 4090 4  |
4025 4091 4  | Table used up. If anything is in the buffer, print it.
4026 4092 4  |
4027 4093 4  |
4028 4094 4  | if .prvcnt gtr 0
4029 4095 4  | then $put (rab = .rabptr);
4030 4096 4  |
4031 4097 1  | end;
```



```
.PSECT $SPLITS$,NOWRT,NOEXE,2

00 00 00 45 00 45 44 41 52 47 50 55 00854 P.AFC: .ASCII \UPGRADE\<0>
44 41 52 47 4E 57 4F 44 0085C P.AFD: .ASCII \DOWNGRADE\<0><0><0>
00 00 4C 4E 4A 50 4D 54 00868 P.AFE: .ASCII \TMPJNL\<0><0>
00 00 4C 4E 4A 4D 52 50 00870 P.AFF: .ASCII \PRMJNL\<0><0>

.PSECT $CODE$,NOWRT,2

OFFC 00000 PRINT_PRIV:
00000000' 00 20 D0 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 3988
59 D4 00009 MOVL #32,DISBUF 4035
22 50 00000000' 00 D0 0000B CLRL PRVCNT 4036
A0 01 B0 00012 MOVL RABPTR,R0 4037
57 00000000G 00 9E 00016 MOVW #1,34(R0)
5B 67 9A 0001D 1$: MOVAB PRVSAB_NAMES, POINTER 4038
03 12 00020 MOVZBL (POINTER), SYMMIN 4040
0098 31 00022 BNEQ 2$
57 D6 00025 BRW 6$
5A 87 9A 00027 2$: INCL POINTER 4050
58 87 9A 0002A MOVZBL (POINTER)+, SYMVAL 4051
03 0: BC 5A E0 0002D MOVZBL (POINTER)+, SYMLEN 4053
07 00 67 0082 31 00032 BBS SYMVAL, @PRVADR, 3$ 4055
00 58 2D 00035 BRW 5$
00000000' 00 0003A CMPC5 SYMLEN, (POINTER), #0, #7, P.AFC 4056
76 13 0003F BEQL 5$
09 00 67 58 2D 00041 CMPC5 SYMLEN, (POINTER), #0, #9, P.AFD 4057
00000000' 00 00046 BEQL 5$
06 00 67 6A 13 0004B CMPC5 SYMLEN, (POINTER), #0, #6, P.AFE 4058
00000000' 00 00052 BEQL 5$
5E 13 00057 CMPC5 SYMLEN, (POINTER), #0, #6, P.AFF 4059
00000000' 00 0005E BEQL 5$
52 13 00063 MOVL RABPTR, R0 4068
50 00000000' 00 D0 00065 MOVZWL 34(R0), R1
51 22 A0 3C 0006C ADDL2 SYMLEN, R1
51 58 C0 00070 CMPL R1, #63
3F 51 D1 00073 BLEQ 4$
16 15 00076 PUSHL R0 4071
50 DD 00078 CALLS #1,SYSSPUT
00000000G 00 01 FB 0007A CLRL PRVCNT 4072
59 D4 00081 MOVL RABPTR, R0 4073
22 50 00000000' 00 D0 00083 MOVW #1,34(R0)
A0 01 B0 0008A 4$: MOVL RABPTR, R0 4080
50 00000000' 00 D0 0008E MOVAB 34(R0), R6
56 22 A0 9E 00095 MOVZWL (R6), R0
50 66 3C 00099 MOVW #32,DISBUF[R0]
00000000'0040 20 90 0009C INCW (R6) 4081
66 B6 000A4 MOVZWL (R6), R0 4082
00000000'0040 50 66 3C 000A6 MOVW3 SYMLEN, (POINTER), DISBUF[R0]
67 58 28 000A9 ADDW2 SYMLEN, (R6) 4083
66 58 A0 000B2 INCL PRVCNT 4084
59 D6 000B5
```


UAFMAIN
V04-000

print_priv - print privilege bits

B 6
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1

Page 150
(30)

57	58	C0	000B7	5\$:	ADDL2	SYMLEN, POINTER	:	4087
	FF60	31	000BA		BRW	1\$:	4040
	59	D5	000BD	6\$:	TSTL	PRVCNT	:	4094
	0D	15	000BF		BLEQ	7\$:	
00000000G	00	00	DD	000C1	PUSHL	RABPTR	:	4095
	01	FB	000C7		CALLS	#1, SYSSPUT	:	
	04	00	00CE	7\$:	RET		:	4097

; Routine Size: 207 bytes, Routine Base: \$CODE\$ + 21E8


```
4033 1 %sbttl 'build_ini_recs - build system & default records'
4034 1 routine build_ini_recs : novalue =
4035 2 begin
4036 2 ++
4037 2
4038 2
4039 2 FUNCTIONAL DESCRIPTION:
4040 2
4041 2 Build the initial records for the creation of a new UAF file.
4042 2 The user default record is built in the DEFAULT_RECORD
4043 2 buffer and the system manager record is built in RECBUF.
4044 2
4045 2 INPUTS:
4046 2
4047 2 none
4048 2
4049 2 IMPLICIT INPUTS:
4050 2
4051 2 none
4052 2
4053 2 OUTPUTS:
4054 2
4055 2 none
4056 2
4057 2 IMPLICIT OUTPUTS:
4058 2
4059 2 default record is built in DEFAULT_RECORD
4060 2 system record is built in RECBUF
4061 2
4062 2 ROUTINE VALUE:
4063 2
4064 2 none
4065 2
4066 2 SIDE EFFECTS:
4067 2
4068 2 none
4069 2 --
4070 2
4071 2 local
4072 2 user_desc : $bblock [8];
4073 2
4074 2 ch$fill (0, uaf$c_fixed, default_record);
4075 2 default_record[uaf$b_version] = uaf$c_version1;
4076 2 default_record[uaf$b_rtype] = uaf$c_user_id;
4077 2
4078 2 username is blank filled
4079 2
4080 2
4081 2 ch$copy (.defuser<0,8>, defuser+1, %char (' '),
4082 2 uaf$s_username, default_record[uaf$t_username]);
4083 2
4084 2
4085 2 account name is blank filled
4086 2
4087 2
4088 2 ch$copy (.defact<0,8>, defact+1, %char (' '),
4089 2 uaf$s_account, default_record[uaf$t_account]);
```



```

: 4090      4155 2
: 4091      4156 2
: 4092      4157 2  quadword privilege mask
: 4093      4158 2
: 4094      4159 2
: 4095      4160 2 ch$move (8, defpriv, default_record[uaf$q_priv]);
: 4096      4161 2 ch$move (8, defpriv, default_record[uaf$q_def_priv]);
: 4097      4162 2
: 4098      4163 2
: 4099      4164 2  directory name is counted string
: 4100      4165 2
: 4101      4166 2
: 4102      4167 2 ch$copy (.defdir<0,8> + 1, defdir, %char (' '),
: 4103      4168 2      uaf$s_defdir, default_record[uaf$t_defdir]);
: 4104      4169 2
: 4105      4170 2
: 4106      4171 2  device name is counted string
: 4107      4172 2
: 4108      4173 2
: 4109      4174 2 ch$copy (.defdev<0,8> + 1, defdev, %char (' '),
: 4110      4175 2      uaf$s_defdev, default_record[uaf$t_defdev]);
: 4111      4176 2
: 4112      4177 2
: 4113      4178 2  CLI name is counted string
: 4114      4179 2
: 4115      4180 2
: 4116      4181 2 ch$copy (.defcli<0,8> + 1, defcli, %char (' '),
: 4117      4182 2      uaf$s_defcli, default_record[uaf$t_defcli]);
: 4118      4183 2
: 4119      4184 2
: 4120      4185 2  owner name is counted string
: 4121      4186 2
: 4122      4187 2
: 4123      4188 2 ch$copy (.defowner<0,8> + 1, defowner, %char (' '),
: 4124      4189 2      uaf$s_owner, default_record[uaf$t_owner]);
: 4125      4190 2
: 4126      4191 2
: 4127      4192 2  login command file name is counted string
: 4128      4193 2
: 4129      4194 2
: 4130      4195 2 ch$copy (.deflgicmd<0,8> + 1, deflgicmd, %char (' '),
: 4131      4196 2      uaf$s_lgicmd, default_record[uaf$t_lgicmd]);
: 4132      4197 2
: 4133      4198 2
: 4134      4199 2  fill in default CLI tables
: 4135      4200 2
: 4136      4201 2 ch$copy (.defclitabl<0,8> + 1, defclitabl, %char (' '),
: 4137      4202 2      uaf$s_clitables, default_record[uaf$t_clitables]);
: 4138      4203 2
: 4139      4204 2 ch$move (8, defpwdlife, default_record[uaf$q_pwd_lifetime]);
: 4140      4205 2 default_record[uaf$b_pwd_length] = defpwdlength;
: 4141      4206 2 default_record[uaf$w_grp] = defgrp;
: 4142      4207 2 default_record[uaf$w_mem] = defmem;
: 4143      4208 2 default_record[uaf$w_bioltm] = defbioltm;
: 4144      4209 2 default_record[uaf$l_bytltm] = defbytltm;
: 4145      4210 2 default_record[uaf$w_diolm] = defdioltm;
: 4146      4211 2 default_record[uaf$w_fillm] = deffillm;
```



```
4147 4212 2 default_record[uafl_flags] = defflags;
4148 4213 2 default_record[uafl_tqcmt] = deftcmt;
4149 4214 2 default_record[uafl_prcmt] = defprcmt;
4150 4215 2 default_record[uafl_wsquota] = defwsquota;
4151 4216 2 default_record[uafl_wsextent] = defwsextent;
4152 4217 2 default_record[uafl_dfwscnt] = defdfwscnt;
4153 4218 2 default_record[uafl_cputim] = defcputim;
4154 4219 2 default_record[uafl_astlm] = defastlm;
4155 4220 2 default_record[uafl_pgflquota] = defpgflquota;
4156 4221 2 default_record[uafl_enqlm] = defenqlm;
4157 4222 2 default_record[uafl_pbytlim] = defpbytlim;
4158 4223 2 default_record[uafl_shrfillm] = defshrfillm;
4159 4224 2 default_record[uafl_pri] = defpri;
4160 4225 2 default_record[uafl_quepri] = defquepri;
4161 4226 2 default_record[uafl_maxjobs] = defmaxjobs;
4162 4227 2 default_record[uafl_maxdetach] = defmaxdetach;
4163 4228 2 default_record[uafl_jtquota] = defjtquota;
4164 4229 2 default_record[uafl_maxacctjobs] = defmaxacctjobs;
4165 4230 2 default_record[uafl_primedays] = defprimedays;
4166 4231 2 default_record[uafl_network_access_p] = defhours;
4167 4232 2 default_record[uafl_network_access_s] = defhours;
4168 4233 2 default_record[uafl_batch_access_p] = defhours;
4169 4234 2 default_record[uafl_batch_access_s] = defhours;
4170 4235 2 default_record[uafl_local_access_p] = defhours;
4171 4236 2 default_record[uafl_local_access_s] = defhours;
4172 4237 2 default_record[uafl_dialup_access_p] = defhours;
4173 4238 2 default_record[uafl_dialup_access_s] = defhours;
4174 4239 2 default_record[uafl_remote_access_p] = defhours;
4175 4240 2 default_record[uafl_remote_access_s] = defhours;
4176 4241 2
4177 4242 2 ch$fill (0, uafl_fixed, recbuf);
4178 4243 2 recbuf[uafl_version] = uafl_version1;
4179 4244 2 recbuf[uafl_rtype] = uafl_user_id;
4180 4245 2 ch$copy (.sysuser<0,8>, sysuser+1, %char (' '),
4181 4246 2 uafl_username, recbuf[uafl_username]);
4182 4247 2 ch$copy (.sysact<0,8>, sysact+1, %char (' '),
4183 4248 2 uafl_account, recbuf[uafl_account]);
4184 4249 2 ch$move (8, syspriv, recbuf[uafl_priv]);
4185 4250 2 ch$move (8, syspriv, recbuf[uafl_def_priv]);
4186 4251 2 ch$copy (.sysdir<0,8> + 1, sysdir, %char (' '),
4187 4252 2 uafl_defdir, recbuf[uafl_defdir]);
4188 4253 2 ch$copy (.sysdev<0,8> + 1, sysdev, %char (' '),
4189 4254 2 uafl_defdev, recbuf[uafl_defdev]);
4190 4255 2 ch$copy (.syscli<0,8> + 1, syscli, %char (' '),
4191 4256 2 uafl_defcli, recbuf[uafl_defcli]);
4192 4257 2 ch$copy (.sysowner<0,8> + 1, sysowner, %char (' '),
4193 4258 2 uafl_owner, recbuf[uafl_owner]);
4194 4259 2 ch$copy (.syslgicmd<0,8> + 1, deflgicmd, %char (' '),
4195 4260 2 uafl_lgicmd, recbuf[uafl_lgicmd]);
4196 4261 2 ch$copy (.sysclitabl<0,8> + 1, sysclitabl, %char (' '),
4197 4262 2 uafl_clitables, recbuf[uafl_clitables]);
4198 4263 2
4199 4264 2 pwddsc[dsc$w_length] = .syspass<0,8>;
4200 4265 2 pwddsc[dsc$a_pointer] = syspass+1;
4201 4266 2 user_desc[dsc$w_length] = .sysuser<0,8>;
4202 4267 2 user_desc[dsc$a_pointer] = sysuser+1;
4203 4268 2 $gettim (timadr = time_buf);
```

! Obtain a 16 bit salt


```
4204 2 recbuf[uaf$w_salt] = .time_buf<3*8,16>;
4205 2 recbuf[uaf$b_encrypt] = encrypt;
4206 2 lgi$hpwd (rec_encrypt_dsc, pwddsc, .recbuf[uaf$b_encrypt],
4207 2 .recbuf[uaf$w_salt], user_desc);
4208 2
4209 2 ch$move (8, syspwdlife, recbuf[uaf$q_pwd_lifetime]);
4210 2 recbuf[uaf$b_pwd_length] = syspwdlength;
4211 2 recbuf[uaf$w_grp] = sysgrp;
4212 2 recbuf[uaf$w_mem] = sysmem;
4213 2 recbuf[uaf$w_bioltm] = sysbioltm;
4214 2 recbuf[uaf$l_bytltm] = sysbytltm;
4215 2 recbuf[uaf$w_diolm] = sysdioltm;
4216 2 recbuf[uaf$w_fillm] = sysfillm;
4217 2 recbuf[uaf$l_flags] = sysflags;
4218 2 recbuf[uaf$w_tqcnt] = systqcnt;
4219 2 recbuf[uaf$w_prcnt] = sysprcnt;
4220 2 recbuf[uaf$l_wsquota] = syswsquota;
4221 2 recbuf[uaf$l_wsextent] = syswsextent;
4222 2 recbuf[uaf$l_dfwsent] = sysdfwsent;
4223 2 recbuf[uaf$l_cputim] = syscputim;
4224 2 recbuf[uaf$w_astltm] = sysastltm;
4225 2 recbuf[uaf$l_pgflquota] = syspgflquota;
4226 2 recbuf[uaf$w_enqlm] = sysenqlm;
4227 2 recbuf[uaf$l_pbytltm] = syspbytltm;
4228 2 recbuf[uaf$w_shrfillm] = sysshrfillm;
4229 2 recbuf[uaf$b_pri] = syspri;
4230 2 default_record[uaf$b_quepri] = sysquepri;
4231 2 recbuf[uaf$w_maxdetach] = sysmaxdetach;
4232 2 recbuf[uaf$l_jtquota] = sysjtquota;
4233 2 recbuf[uaf$w_maxjobs] = sysmaxjobs;
4234 2 recbuf[uaf$w_maxdetach] = sysmaxdetach;
4235 2 recbuf[uaf$w_maxacctjobs] = sysmaxacctjobs;
4236 2 recbuf[uaf$b_primedays] = sysprimedays;
4237 2 recbuf[uaf$b_network_access_p] = defhours;
4238 2 recbuf[uaf$b_network_access_s] = defhours;
4239 2 recbuf[uaf$b_batch_access_p] = defhours;
4240 2 recbuf[uaf$b_batch_access_s] = defhours;
4241 2 recbuf[uaf$b_local_access_p] = defhours;
4242 2 recbuf[uaf$b_local_access_s] = defhours;
4243 2 recbuf[uaf$b_dialup_access_p] = defhours;
4244 2 recbuf[uaf$b_dialup_access_s] = defhours;
4245 2 recbuf[uaf$b_remote_access_p] = defhours;
4246 2 recbuf[uaf$b_remote_access_s] = defhours;
4247 1 end;
```

03FC 0000 BUILD_INI RECS:

					WORD	Save R2,R3,R4,R5,R6,R7,R8,R9	4099
					MOVAB	DEFACT+1, R9	
					MOVAB	DEFAULT_RECORD, R8	
					MOVAB	RECBUF, R7	
					SUBL2	#8, SP	
0284	8F	00	59	00000000	00	9E 00002	
			58	00000000	00	9E 00009	
			57	00000000	00	9E 00010	
			5E		08	C2 00017	
			6E		00	2C 0001A	
					68	00021	
					MOVCS	#0, (SP), #0, #644, DEFAULT_RECORD	4139

			68	0101	8F	B0	00022	MOVW	#257, DEFAULT_RECORD	4141	
			50	E8	A9	9A	00027	MOVZBL	DEFUSER, R0	4146	
20		20	E9	A9	50	2C	0002B	MOVCS	R0, DEFUSER+1, #32, #32, DEFAULT_RECORD+4	4147	
				04	A8		00031				
20		20	50	FF	A9	9A	00033	MOVZBL	DEFACT, R0	4153	
			69		50	2C	00037	MOVCS	R0, DEFACT+1, #32, #32, DEFAULT_RECORD+52	4154	
				34	A8		0003C				
	019C	C8	10	A9	08	28	0003E	MOVCS	#8, DEFPRIV, DEFAULT_RECORD+412	4160	
	01A4	C8	10	A9	08	28	00045	MOVCS	#8, DEFPRIV, DEFAULT_RECORD+420	4161	
				50	A9	9A	0004C	MOVZBL	DEFDIR, R0	4167	
0040	8F	20	06	A9	50	D6	00050	INCL	R0		
					50	2C	00052	MOVCS	R0, DEFDIR, #32, #64, DEFAULT_RECORD+148	4168	
				0094	C8		0005A				
				0D	A9	9A	0005D	MOVZBL	DEFDEV, R0	4174	
20		20	0D	A9	50	D6	00061	INCL	R0		
				74	50	2C	00063	MOVCS	R0, DEFDEV, #32, #32, DEFAULT_RECORD+116	4175	
					A8		00069				
					69	9A	0006B	MOVZBL	DEFCLI, R0	4181	
20		20	69		50	D6	0006E	INCL	R0		
					50	2C	00070	MOVCS	R0, DEFCLI, #32, #32, DEFAULT_RECORD+276	4182	
				0114	C8		00075				
				04	A9	9A	00078	MOVZBL	DEFOWNER, R0	4188	
20		20	04	A9	50	D6	0007C	INCL	R0		
					50	2C	0007E	MOVCS	R0, DEFOWNER, #32, #32, DEFAULT_RECORD+84	4189	
				54	A8		00084				
				05	A9	9A	00086	MOVZBL	DEFLGICMD, R0	4195	
0040	8F	20	05	A9	50	D6	0008A	INCL	R0		
					50	2C	0008C	MOVCS	R0, DEFLGICMD, #32, #64, DEFAULT_RECORD+212	4196	
				00D4	C8		00094				
				F5	A9	9A	00097	MOVZBL	DEFCLITABL, R0	4201	
20		20	F5	A9	50	D6	0009B	INCL	R0		
					50	2C	0009D	MOVCS	R0, DEFCLITABL, #32, #32, -	4202	
	0174	C8	18	A9	C8		000A3				
			016A	C8	08	28	000A6	MOVCS	#8, DEFPWDLIFE, DEFAULT_RECORD+372	4204	
			24	A8	06	90	000AD	MOVCS	#6, DEFAULT_RECORD+362	4205	
			0230	C8	00800080	8F	D0	000B2	MOVL	#8388736, DEFAULT_RECORD+36	4207
			020E	C8	1000	8F	3C	000BA	MOVZWL	#4096, DEFAULT_RECORD+560	4209
					00060006	8F	D0	000C1	MOVL	#393222, DEFAULT_RECORD+526	4208
					01D4	C8	D4	000CA	CLRL	DEFAULT_RECORD+468	4212
			020C	C8		02	B0	000CE	MOVW	#2, DEFAULT_RECORD+524	4214
			021C	C8	C8	8F	9A	000D3	MOVZBL	#200, DEFAULT_RECORD+540	4215
			0224	C8	01F4	8F	3C	000D9	MOVZWL	#500, DEFAULT_RECORD+548	4216
			0220	C8	96	8F	9A	000E0	MOVZBL	#150, DEFAULT_RECORD+544	4217
					022C	C8	D4	000E6	CLRL	DEFAULT_RECORD+556	4218
			0212	C8	000A000A	8F	D0	000EA	MOVL	#655370, DEFAULT_RECORD+530	4213
			0228	C8	2710	8F	3C	000F3	MOVZWL	#10000, DEFAULT_RECORD+552	4220
			0216	C8	0014000A	8F	D0	000FA	MOVL	#1310730, DEFAULT_RECORD+534	4221
					0234	C8	D4	00103	CLRL	DEFAULT_RECORD+564	4222
					021A	C8	B4	00107	CLRW	DEFAULT_RECORD+538	4223
			0204	C8	0404	8F	3C	0010B	MOVZWL	#1028, DEFAULT_RECORD+516	4224
			0238	C8	0400	8F	3C	00112	MOVZWL	#1024, DEFAULT_RECORD+568	4228
					0208	C8	D4	00119	CLRL	DEFAULT_RECORD+520	4229
			0202	C8	60	8F	90	0011D	MOVCS	#96, DEFAULT_RECORD+514	4230
01D8	C8	18		00	00	F0	00123	INSV	#0, #0, #24, DEFAULT_RECORD+472	4231	
01DB	C8	18		00	00	F0	0012A	INSV	#0, #0, #24, DEFAULT_RECORD+475	4232	
01DE	C8	18		00	00	F0	00131	INSV	#0, #0, #24, DEFAULT_RECORD+478	4233	
01E1	C8	18		00	00	F0	00138	INSV	#0, #0, #24, DEFAULT_RECORD+481	4234	

UAFMAIN
V04-000

build_ini_recs - build system & default records

H 6
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1

Page 156
(31)

01E4	C8	18	00	00	FO	0013F	INSV	#0, #0, #24, DEFAULT_RECORD+484	4235		
01E7	C8	18	00	00	FO	00146	INSV	#0, #0, #24, DEFAULT_RECORD+487	4236		
01EA	C8	18	00	00	FO	0014D	INSV	#0, #0, #24, DEFAULT_RECORD+490	4237		
01ED	C8	18	00	00	FO	00154	INSV	#0, #0, #24, DEFAULT_RECORD+493	4238		
01F0	C8	18	00	00	FO	0015B	INSV	#0, #0, #24, DEFAULT_RECORD+496	4239		
01F3	C8	18	00	00	FO	00162	INSV	#0, #0, #24, DEFAULT_RECORD+499	4240		
0284	8F	00	6E	00	2C	00169	MOVCS	#0, (SP), #0, #644, RECBUF	4242		
			67	0101	8F	BO	00170				
			56	20	A9	9A	00171	MOVW	#257, RECBUF	4244	
	20	20	21	A9	56	2C	00176	MOVZBL	SYSUSER, R6	4245	
					A7		0017A	MOVCS	R6, SYSUSER+1, #32, #32, RECBUF+4	4246	
				04	A7		00180				
				39	A9	9A	00182	MOVZBL	SYSACT, R0	4247	
	20	20	3A	A9	50	2C	00186	MOVCS	R0, SYSACT+1, #32, #32, RECBUF+52	4248	
				34	A7		0018C				
		019C	C7	60	A9	08	28	0018E	MOVCS	#8, SYSPRIV, RECBUF+412	4249
		01A4	C7	60	A9	08	28	00195	MOVCS	#8, SYSPRIV, RECBUF+420	4250
				50	A9	9A	0019C	MOVZBL	SYSDEV, R0	4251	
					50	D6	001A0	INCL	R0		
0040	8F	20	54	A9	50	2C	001A2	MOVCS	R0, SYSDEV, #32, #64, RECBUF+148	4252	
					C7		001AA				
				50	A9	9A	001AD	MOVZBL	SYSCLI, R0	4253	
					50	D6	001B1	INCL	R0		
	20	20	5D	A9	50	2C	001B3	MOVCS	R0, SYSCLI, #32, #32, RECBUF+116	4254	
					A7		001B9				
				50	A9	9A	001BB	MOVZBL	SYSOWNER, R0	4255	
					50	D6	001BF	INCL	R0		
	20	20	40	A9	50	2C	001C1	MOVCS	R0, SYSOWNER, #32, #32, RECBUF+84	4256	
					C7		001C7				
				50	A9	9A	001CA	MOVZBL	SYSCLITABL, R0	4257	
					50	D6	001CE	INCL	R0		
	20	20	44	A9	50	2C	001D0	MOVCS	R0, SYSCLITABL, #32, #32, RECBUF+276	4258	
					A7		001D6				
				50	A9	9A	001D8	MOVZBL	SYSOVLGICMD, R0	4259	
					50	D6	001DC	INCL	R0		
0040	8F	20	05	A9	50	2C	001DE	MOVCS	R0, DEFLGICMD, #32, #64, RECBUF+212	4260	
					C7		001E6				
				50	A9	9A	001E9	MOVZBL	SYSOVLGICMD, R0	4261	
					50	D6	001ED	INCL	R0		
	20	20	2F	A9	50	2C	001EF	MOVCS	R0, SYSOVLGICMD, #32, #64, RECBUF+308	4262	
					C7		001F5				
		0584	C8	27	A9	9B	001F8	MOVZBW	SYSOVLGICMD, R0	4264	
		0588	C8	28	A9	9E	001FE	MOVAB	SYSOVLGICMD+1, PWDDSC+4	4265	
			6E		56	BO	00204	MOVW	R6, USER_DESC	4266	
		04	AE	21	A9	9E	00207	MOVAB	SYSOVLGICMD+T, USER_DESC+4	4267	
					C7	9F	0020C	PUSHAB	TIME_BUF	4268	
		00000000G	00	0670	01	FB	00210	CALLS	#1, SYSOVLGICMD		
		0166	C7	0673	C7	BO	00217	MOVW	TIME_BUF+3, RECBUF+358	4269	
		0168	C7		02	90	0021E	MOVW	#2, RECBUF+360	4270	
					5E	DD	00223	PUSHL	SP	4271	
			7E	0166	C7	3C	00225	MOVZWL	RECBUF+358, -(SP)	4272	
			7E	0168	C7	9A	0022A	MOVZBL	RECBUF+360, -(SP)	4271	
				0584	C8	9F	0022F	PUSHAB	PWDDSC		
				0084	C9	9F	00233	PUSHAB	REC_ENCRYPT_DSC		
		00000000G	00		05	FB	00237	CALLS	#5, LGISHPWD		
	0174	C7	68	A9	08	28	0023E	MOVCS	#8, SYSPWDLIFE, RECBUF+372	4274	
		016A	C7		08	90	00245	MOVW	#8, RECBUF+362	4275	

		24	A7	00010004	8F	D0	0024A	MOVL	#65540, RECBUF+36	:	4277
		0230	C7	5000	8F	3C	00252	MOVZWL	#20480, RECBUF+560	:	4279
		020E	C7	000C000C	8F	D0	00259	MOVL	#78644, RECBUF+526	:	4278
				01D4	C7	D4	00262	CLRL	RECBUF+468	:	4282
		0212	C7	00140014	8F	D0	00266	MOVL	#1310740, RECBUF+530	:	4283
		020A	C7	000A0000	8F	D0	0026F	MOVL	#655360, RECBUF+522	:	4296
		021C	C7	015E	8F	3C	00278	MOVZWL	#350, RECBUF+540	:	4285
		0224	C7	0400	8F	3C	0027F	MOVZWL	#1024, RECBUF+548	:	4286
		0220	C7	96	8F	9A	00286	MOVZBL	#150, RECBUF+544	:	4287
				022C	C7	D4	0028C	CLRL	RECBUF+556	:	4288
		0228	C7	2710	8F	3C	00290	MOVZWL	#10000, RECBUF+552	:	4290
		0216	C7	00140014	8F	D0	00297	MOVL	#1310740, RECBUF+534	:	4291
				0234	C7	D4	002A0	CLRL	RECBUF+564	:	4292
				021A	C7	B4	002A4	CLRW	RECBUF+538	:	4293
		0204	C7		04	90	002A8	MOVB	#4, RECBUF+516	:	4294
		0205	C8		04	90	002AD	MOVB	#4, DEFAULT RECORD+517	:	4295
		0238	C7	0400	8F	3C	002B2	MOVZWL	#1024, RECBUF+568	:	4297
				020A	C7	B4	002B9	CLRW	RECBUF+522	:	4299
				0206	C7	D4	002BD	CLRL	RECBUF+518	:	4298
		0202	C7	60	8F	90	002C1	MOVB	#96, RECBUF+514	:	4301
01D8	C7	18	00		00	F0	002C7	INSV	#0, #0, #24, RECBUF+472	:	4302
01DB	C7	18	00		00	F0	002CE	INSV	#0, #0, #24, RECBUF+475	:	4303
01DE	C7	18	00		00	F0	002D5	INSV	#0, #0, #24, RECBUF+478	:	4304
01E1	C7	18	00		00	F0	002DC	INSV	#0, #0, #24, RECBUF+481	:	4305
01E4	C7	18	00		00	F0	002E3	INSV	#0, #0, #24, RECBUF+484	:	4306
01E7	C7	18	00		00	F0	002EA	INSV	#0, #0, #24, RECBUF+487	:	4307
01EA	C7	18	00		00	F0	002F1	INSV	#0, #0, #24, RECBUF+490	:	4308
01ED	C7	18	00		00	F0	002F8	INSV	#0, #0, #24, RECBUF+493	:	4309
01F0	C7	18	00		00	F0	002FF	INSV	#0, #0, #24, RECBUF+496	:	4310
01F3	C7	18	00		00	F0	00306	INSV	#0, #0, #24, RECBUF+499	:	4311
					04	00	0030D	RET		:	4312

; Routine Size: 782 bytes, Routine Base: \$CODE\$ + 22B7


```
4249 4313 1 %sbttl 'get_user_record - get username and lookup record'
4250 4314 1 routine get_user_record (lock_record, permanent_ok) =
4251 4315 2 begin
4252 4316 2 ++
4253 4317 2
4254 4318 2
4255 4319 2 FUNCTIONAL DESCRIPTION:
4256 4320 2
4257 4321 2 This routine pulls the next token out of the command
4258 4322 2 buffer, assuming it is the username, and looks up the
4259 4323 2 UAF record for that name. If the record is found,
4260 4324 2 it is loaded into RECBUF (by routine LOCATE_USER) .
4261 4325 2
4262 4326 2 INPUTS:
4263 4327 2
4264 4328 2 LOCK_RECORD - specifies that the GET shall lock the record
4265 4329 2 PERMANENT_OK - specifies that the DEFAULT and SYSTEM records are allowed
4266 4330 2
4267 4331 2 IMPLICIT INPUTS:
4268 4332 2
4269 4333 2 TOKENPTR - address of delimiter following last token processed,
4270 4334 2 which was the command name.
4271 4335 2 TOKENLEN - global variable to contain length of current token
4272 4336 2
4273 4337 2 OUTPUTS:
4274 4338 2
4275 4339 2 none
4276 4340 2
4277 4341 2 IMPLICIT OUTPUTS:
4278 4342 2
4279 4343 2 none
4280 4344 2
4281 4345 2 ROUTINE VALUE:
4282 4346 2
4283 4347 2 true -> user record found
4284 4348 2 false -> user record not found
4285 4349 2
4286 4350 2 SIDE EFFECTS:
4287 4351 2
4288 4352 2 none
4289 4353 2 --
4290 4354 2
4291 4355 2 builtin
4292 4356 2 nullparameter;
4293 4357 2
4294 4358 2
4295 4359 2 Is this the second phase of a RENAME?
4296 4360 2
4297 4361 2 if .rename_ph2
4298 4362 2 then
4299 4363 2 begin
4300 4364 2 if .netuaf_exists
4301 4365 2 then adjust_proxy (update_records);
4302 4366 2 ch$move (.olduserlen, oldusername, .tokenptr);
4303 4367 2 tokenlen = .olduserlen;
4304 4368 2 rename_ph2 = false;
4305 4369 2 end
```



```
07FC 00000 GET_USER_RECORD:
      .WORD      Save R2,R3,R4,R5,R6,R7,R8,R9,R10
5A 00000000G 00 9E 00002 MOVAB LIB$SIGNAL, R10      : 4314
59 00000000' 00 9E 00009 MOVAB SD TOKEN1, R9
58 00000000' 00 9E 00010 MOVAB RENAME_PH2, R8
57 00000000' 00 9E 00017 MOVAB TOKENLEN, R7
1F 68 E9 0001E BLBC RENAME_PH2, 2$      : 4361
07 10 A7 E9 00021 BLBC NETUAF_EXISTS, 1$      : 4364
      7E D4 00025 CLRL -(SP)      : 4365
      E796 CF 01 FB 00027 CALLS #1, ADJUST_PROXY
      56 04 A8 D0 0002C 1$: MOVL OLDUSERLEN, R6      : 4366
      50 04 A7 D0 00030 MOVL TOKENPTR, R0
      60 08 A8 56 28 00034 MOV C3 R6, OLDUSERNAME, (R0)
      67 56 B0 00039 MOVW R6, TOKENLEN      : 4367
      68 94 0003C CLRB RENAME_PH2      : 4368
      45 11 0003E BRB 5$      : 4361
      59 DD 00040 2$: PUSHL R9      : 4380
      00000000G 00 01 FB 00042 CALLS #1, CLISPRESNT
      12 50 E9 00049 BLBC R0, 3$
      57 DD 0004C PUSHL R7      : 4381
      59 DD 0004E PUSHL R9
      00000000G 00 02 FB 00050 CALLS #2, CLISGET_VALUE
      04 50 E9 00057 BLBC R0, 3$
      67 B5 0005A TSTW TOKENLEN      : 4382
      08 12 0005C BNEQ 4$
      00000000G 8F DD 0005E 3$: PUSHL #UAF$_NOUSERNAME      : 4383
      7B 11 00064 BRB 11$
      03 6C 91 00066 4$: CMPB (AP), #3      : 4388
      1A 1F 00069 BLSSU 5$
      0C AC D5 0006B TSTL 12(AP)
      15 13 0006E BEQL 5$
      56 67 3C 00070 MOVZWL TOKENLEN, R6      : 4391
      50 04 A7 D0 00073 MOVL TOKENPTR, R0
      60 56 2C 00077 MOV C5 R6, (R0), #32, #32, OLDUSERNAME
      08 A8 56 D0 0007E MOVL R6, OLDUSERLEN      : 4392
      04 01 90 00082 MOV B #1, RENAME_PH2      : 4393
      68 AC E8 00085 5$: BLBS PERMANENT_OK, 12$      : 4397
      5C 08 C9 9A 00089 MOVZBL DEFUSER, R1      : 4400
      51 0118 C9 A7 D0 0008E MOVL TOKENPTR, R0
      50 04 51 2D 00092 CMPC5 R1, DEFUSER+1, #32, TOKENLEN, (R0)
      67 20 0119 C9 60 00099 BNEQ 8$      : 4402
      03 1A 12 0009A CMPB (AP), #3
      6C 91 0009C BLSSU 6$
      05 1F 0009F TSTL 12(AP)
      0C AC D5 000A1 BNEQ 7$
      08 12 000A4 BRB 11$
      00000000G 8F DD 000A6 6$: PUSHL #UAF$_REDEF      : 4404
      33 11 000AC BRB 11$
      00000000G 8F DD 000AE 7$: PUSHL #UAF$_RENDEF      : 4406
```


67	20	0151	51	0150	2B 11 000B4	BRB	11\$:	
			50	04	C9 9A 000B6	MOVZBL	SYSUSER, R1	:	4408
			C9		A7 D0 000BB	MOVL	TOKENPTR, R0	:	
					51 2D 000BF	CMPC5	R1, SYSUSER+1, #32, TOKENLEN, (R0)	:	
					60 000C6			:	
			03		1C 12 000C7	BNEQ	12\$:	
					6C 91 000C9	CMPB	(AP), #3	:	4411
				0C	05 1F 000CC	BLSSU	9\$:	
					AC D5 000CE	TSTL	12(AP)	:	
					08 12 000D1	BNEQ	10\$:	
				00000000G	8F DD 000D3	PUSHL	#UAF\$_REMSYS	:	4413
					06 11 000D9	BRB	11\$:	
				00000000G	8F DD 000DB	PUSHL	#UAF\$_REMSYS	:	4415
			6A		01 FB 000E1	CALLS	#1, LIB\$SIGNAL	:	
					04 000E4	RET		:	
				04	AC DD 000E5	PUSHL	LOCK RECORD	:	4419
				04	A7 DD 000E8	PUSHL	TOKENPTR	:	
			7E		67 3C 000EB	MOVZWL	TOKENLEN, -(SP)	:	
			00		03 FB 000EE	CALLS	#3, LOCATE_USER	:	
			04		50 E9 000F5	BLBC	R0, 13\$:	
			50		01 D0 000F8	MOVL	#1, R0	:	4420
					04 000FB	RET		:	
			50	18	A7 D0 000FC	MOVL	RMSERR, R0	:	4422
			8F		50 D1 00100	CMP	R0, #98994	:	
					13 12 00107	BNEQ	14\$:	
				04	A7 DD 00109	PUSHL	TOKENPTR	:	4424
			7E		67 3C 0010C	MOVZWL	TOKENLEN, -(SP)	:	
					02 DD 0010F	PUSHL	#2	:	
				00000000G	8F DD 00111	PUSHL	#UAF\$_BADUSR	:	
			6A		04 FB 00117	CALLS	#4, LIB\$SIGNAL	:	
					0D 11 0011A	BRB	15\$:	
					50 DD 0011C	PUSHL	R0	:	4426
					7E D4 0011E	CLRL	-(SP)	:	
				00000000G	8F DD 00120	PUSHL	#UAF\$_GETERR	:	
			6A		03 FB 00126	CALLS	#3, LIB\$SIGNAL	:	
					50 D4 00129	CLRL	R0	:	4428
					04 0012B	RET		:	

; Routine Size: 300 bytes, Routine Base: \$CODE\$ + 25C5

locate_user - lookup user record in UAF

```
4366 4429 1 %sbttl 'locate_user - lookup user record in UAF'
4367 4430 1 routine locate_user (size, buffer, lock_record) =
4368 4431 2 begin
4369 4432 2
4370 4433 2 ++
4371 4434 2
4372 4435 2 FUNCTIONAL DESCRIPTION:
4373 4436 2
4374 4437 2     Routine to locate a user record in the UAF file.
4375 4438 2
4376 4439 2 INPUTS:
4377 4440 2
4378 4441 2     SIZE - size of the username string
4379 4442 2     BUFFER - address of the username string
4380 4443 2     LOCK_RECORD - specifies that the GET shall lock the record
4381 4444 2
4382 4445 2 IMPLICIT INPUTS:
4383 4446 2
4384 4447 2     UAFRAB - RMS data structure for SYSUAF.DAT
4385 4448 2
4386 4449 2 OUTPUTS:
4387 4450 2
4388 4451 2     none
4389 4452 2
4390 4453 2 IMPLICIT OUTPUTS:
4391 4454 2
4392 4455 2     If record is found, RECBUF contains the located record.
4393 4456 2
4394 4457 2 ROUTINE VALUE:
4395 4458 2
4396 4459 2     true -> record found
4397 4460 2     false -> record not found
4398 4461 2
4399 4462 2 SIDE EFFECTS:
4400 4463 2
4401 4464 2     none
4402 4465 2 --
4403 4466 2
4404 4467 2 local
4405 4468 2     found; ! record found indicator
4406 4469 2
4407 4470 2 found = true; ! assume record was found
4408 4471 2
4409 4472 2 ch$copy (.size, .buffer, %char (' '),
4410 4473 2     uaf$s_username, recbuf[uaf$t_username]);
4411 4474 2
4412 4475 2 if .lock_record
4413 4476 2 then uaf$rab[ra$b$l_rop] = ra$b$m_rlk
4414 4477 2 else uaf$rab[ra$b$l_rop] = ra$b$m_rrl or ra$b$m_nlk;
4415 4478 2
4416 4479 2 if not (rmserr = get_uaf_record ())
4417 4480 2 then found = false;
4418 4481 2
4419 4482 2 return .found; ! return indicator
4420 4483 1 end;
```


				00FC 00000 LOCATE_USER:					
		57	00000000'	00	9E 00002	WORD	Save R2,R3,R4,R5,R6,R7	:	4430
		56		01	D0 00009	MOVAB	UAFRAB+4, R7	:	
20	20	08	BC	04	AC 2C 0000C	MOVL	#1, FOUND	:	4470
			FA18	C7	00013	MOVCS	SIZE, @BUFFER, #32, #32, RECBUF+4	:	4473
		09	OC	AC	E9 00016	BLBC	LOCK RECORD, 1\$:	4475
		67	00080000	8F	D0 0001A	MOVL	#524288, UAFRAB+4	:	4476
				07	11 00021	BRB	2\$:	
		67	00100008	8F	D0 00023	1\$: MOVL	#1048584, UAFRAB+4	:	4477
	00000000V	00		00	FB 0002A	2\$: CALLS	#0, GET UAF_RECORD	:	4479
	FA0C	C7		50	D0 00031	MOVL	R0, RMSERR	:	
		02		50	E8 00036	BLBS	R0, 3\$:	
				56	D4 00039	CLRL	FOUND	:	4480
		50		56	D0 0003B	3\$: MOVL	FOUND, R0	:	4482
				04	0003E	RET		:	4483

; Routine Size: 63 bytes, Routine Base: \$CODE\$ + 26F1


```
4422 1 %sbttl 'get_uaf_record - routine to deal with record locking'
4423 1 routine get_uaf_record =
4424 2 begin
4425 2 ++
4426 2
4427 2 FUNCTIONAL DESCRIPTION:
4428 2
4429 2 A common routine to GET records from SYSUAF.DAT, deal with retries
4430 2 when the record is locked.
4431 2
4432 2 INPUTS:
4433 2
4434 2 none
4435 2
4436 2 IMPLICIT INPUTS:
4437 2
4438 2 UAFRAB - RMS data structure for SYSUAF.DAT
4439 2
4440 2 OUTPUTS:
4441 2
4442 2 none
4443 2
4444 2 IMPLICIT OUTPUTS:
4445 2
4446 2 RECBUF - The user's record
4447 2
4448 2 ROUTINE VALUE:
4449 2
4450 2 RMS status code
4451 2
4452 2 SIDE EFFECTS:
4453 2
4454 2 none
4455 2
4456 2 --
4457 2
4458 2 local
4459 2 counter, ! number of retries remaining
4460 2 success;
4461 2
4462 2
4463 2 If anybody's record is locked it shouldn't remain that way for long.
4464 2 Also, ignore the special system password record.
4465 2
4466 2
4467 2 counter = retry_rlk;
4468 2 while ( ((success = $get (rab = uafcab)) eql rms$ rlk)
4469 2 or ch$eq1(UAF$S_USERNAME, RECBUF[UAF$T_USERNAME],
4470 2 17, uplit(%ascii'<System+Password>'), %c ' ) )
4471 2 and ( (counter = .counter - 1) geq 0)
4472 2 do
4473 2 if $schdwk (daytim = wakedelta) then $hiber;
4474 2
4475 2 .success
4476 2 end;
```



```

                                .PSECT $SPLIT$,NOWRT,NOEXE,2
72 6F 77 73 73 61 50 2B 6D 65 74 73 79 53 3C 00878 P.AFG: .ASCII \<System+Password>\<0><0><0>
   00 00 00 3E 64 00887
                                :
                                .PSECT $CODE$,NOWRT,2
                                003C 00000 GET_UAF_RECORD:
                                .WORD Save R2,R3,R4,R5
                                54 00000000' 08 D0 00002 1$: MOVL #8, COUNTER : 4485
                                00 00000000' 00 9F 00005 1$: PUSHAB UAFRAB : 4529
                                00000000G 00 01 FB 0000B 1$: CALLS #1, SYSS$GET : 4530
                                55 50 D0 00012 1$: MOVL R0, SUCCESS
                                000182AA 8F 55 D1 00015 1$: CMPL SUCCESS, #98986
                                11 20 00000000' 00 10 13 0001C 1$: BEQL 2$
                                00000000' 00 20 2D 0001E 1$: CMPC5 #32, RECBUF+4, #32, #17, P.AFG : 4531
                                00000000' 00 21 12 0002C 1$: BNEQ 3$
                                54 D7 0002E 2$: DECL COUNTER : 4533
                                1D 19 00030 2$: BLSS 3$
                                7E D4 00032 2$: CLRL -(SP) : 4535
                                00000000' 00 9F 00034 2$: PUSHAB WAKEDelta
                                7E 7C 0003A 2$: CLRQ -(SP)
                                00000000G 00 04 FB 0003C 2$: CALLS #4, SYSS$SCHDWK
                                BF 50 E9 00043 2$: BLBC R0, 1$
                                00000000G 00 00 FB 00046 2$: CALLS #0, SYSS$HIBER
                                50 B6 11 0004D 2$: BRB 1$
                                55 D0 0004F 3$: MOVL SUCCESS, R0 : 4538
                                04 00052 3$: RET

```

; Routine Size: 83 bytes, Routine Base: \$CODE\$ + 2730

get_cmd_line - input user command line

```
: 4478 4539 1 %sbttl 'get_cmd_line - input user command line'
: 4479 4540 1 routine get_cmd_line =
: 4480 4541 2 begin
: 4481 4542 2
: 4482 4543 2 ++
: 4483 4544 2
: 4484 4545 2 FUNCTIONAL DESCRIPTION:
: 4485 4546 2
: 4486 4547 2 This routine reads in the command line from the user,
: 4487 4548 2 reading additional lines if continuation is specified by
: 4488 4549 2 a '-' as the last character on the input line.
: 4489 4550 2 A zero byte is inserted following the last input character read.
: 4490 4551 2
: 4491 4552 2 INPUTS:
: 4492 4553 2
: 4493 4554 2 none
: 4494 4555 2
: 4495 4556 2 IMPLICIT INPUTS:
: 4496 4557 2
: 4497 4558 2 CMDBUF - buffer to receive the user's command line
: 4498 4559 2 CMDBUFLEN - literal length of CMDBUF
: 4499 4560 2
: 4500 4561 2 OUTPUTS:
: 4501 4562 2
: 4502 4563 2 none
: 4503 4564 2
: 4504 4565 2 IMPLICIT OUTPUTS:
: 4505 4566 2
: 4506 4567 2 CMDBUF is filled with command line
: 4507 4568 2
: 4508 4569 2 ROUTINE VALUE:
: 4509 4570 2
: 4510 4571 2 none
: 4511 4572 2
: 4512 4573 2 SIDE EFFECTS:
: 4513 4574 2
: 4514 4575 2 none
: 4515 4576 2 --
: 4516 4577 2
: 4517 4578 2 map
: 4518 4579 2 cmdlindsc: vector;
: 4519 4580 2
: 4520 4581 2 local
: 4521 4582 2 ptr ! index into CMDBUF
: 4522 4583 2 buflen; ! remaining buffer length
: 4523 4584 2
: 4524 4585 2
: 4525 4586 2 Prompt with normal prompt string until some input is supplied.
: 4526 4587 2
: 4527 4588 2
: 4528 4589 2 do
: 4529 4590 2 ask (accprmt, cmdbuf[0], cmdbuflen)
: 4530 4591 2 until
: 4531 4592 2 .insize neq 0;
: 4532 4593 2
: 4533 4594 2
: 4534 4595 2 ! Now that line has been read, continue reading until
```



```
get_cmd_line - input user command line

: 4535 4596 2 ! last character is not a '-'.
: 4536 4597 2 !
: 4537 4598 2
: 4538 4599 2 ptr = .insize - 1;          ! index to last character read
: 4539 4600 2 buflen = cmdbufen;      ! initial buffer size
: 4540 4601 2
: 4541 4602 2 while
: 4542 4603 2     .cmdbuf[.ptr] eql '-'
: 4543 4604 2 do
: 4544 4605 2     begin
: 4545 4606 2         !
: 4546 4607 2         ! Read starting at the position of the '-'. Then adjust the
: 4547 4608 2         ! index and remaining length to point to the last character
: 4548 4609 2         ! of the next input.
: 4549 4610 2         !
: 4550 4611 2         !
: 4551 4612 2         buflen = .buflen - (.insize + 1);
: 4552 4613 2         ask (accprmt2, cmdbuf[.ptr], .buflen);
: 4553 4614 2         if (.ptr + .insize) lss cmdbufmax
: 4554 4615 2         then
: 4555 4616 2             ptr = .ptr + .insize - 1
: 4556 4617 2         else
: 4557 4618 2             begin
: 4558 4619 2                 LIB$SIGNAL(UAF$_CMDTOOLONG, 1, cmdbufmax);
: 4559 4620 2                 return false;
: 4560 4621 2             end;
: 4561 4622 2         end;
: 4562 4623 2     end;
: 4563 4624 2
: 4564 4625 2 cmdlindsc [0] = .ptr + 1;
: 4565 4626 2 cmdlindsc [1] = cmdbuf;
: 4566 4627 2
: 4567 4628 2 return true;
: 4568 4629 2
: 4569 4630 2
: 4570 4631 1 end;
```

003C 00000 GET_CMD_LINE:						
				.WORD	Save R2,R3,R4,R5	: 4540
55	00000000V	00	9E 00002	MOVAB	ASK, R5	
54	00000000'	00	9E 00009	MOVAB	CMDBUF, R4	
7E	0400	8F	3C 00010 1\$:	MOVZWL	#1024, -(SP)	: 4590
		54	DD 00015	PUSHL	R4	
	00000000'	00	9F 00017	PUSHAB	ACCPMPT	
65		03	FB 0001D	CALLS	#3, ASK	
50	0990	C4	D0 00020	MOVL	INSIZE, R0	: 4592
		E9	13 00025	BEQL	1\$	
52	FF	A0	9E 00027	MOVAB	-1(R0), PTR	: 4599
53	0400	8F	3C 0002B	MOVZWL	#1024, BUFLN	: 4600
51		54	C1 00030 2\$:	ADDL3	R4, PTR, R1	: 4603
2D		61	91 00034	CMPB	(R1), #45	
		40	12 00037	BNEQ	4\$	
50		53	0990 C4 C3 00039	SUBL3	INSIZE, BUFLN, R0	: 4613

get_cmd_line - input user command line

G 7
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1Page 168
(35)

	53	FF	A0	9E	0003F	MOVAB	-1(R0), BUFLN		
			0A	BB	00043	PUSHR	#^M<R1,R3>		4614
		00000000'	00	9F	00045	PUSHAB	ACCPMPT2		
	65		03	FB	0004B	CALLS	#3, ASK		
50	52	0990	C4	C1	0004E	ADDL3	IN\$IZE, PTR, R0		4615
	8F		50	D1	00054	CMPL	R0, #508		
			06	18	0005B	BGEQ	3\$		
	52	FF	A0	9E	0005D	MOVAB	-1(R0), PTR		4617
			CD	11	00061	BRB	2\$		
	7E	01FC	8F	3C	00063	MOVZWL	#508, -(SP)		4620
			01	DD	00068	PUSHL	#1		
		00000000G	8F	DD	0006A	PUSHL	#UAF\$ CMDTOOLONG		
	00		03	FB	00070	CALLS	#3, LIB\$SIGNAL		
			13	11	00077	BRB	5\$		4621
	00000000'	00	A2	9E	00079	MOVAB	1(R2), CMDLINDSC		4626
	00000000'	00	64	9E	00081	MOVAB	CMDBUF, CMDLINDSC+4		4627
		50	01	D0	00088	MOVL	#1, R0		4629
				04	0008B	RET			
			50	D4	0008C	CLRL	R0		4631
				04	0008E	RET			

; Routine Size: 143 bytes, Routine Base: \$CODE\$ + 2783

ask - prompt terminal for input

```
: 4572 4632 1 %sbttl 'ask - prompt terminal for input'
: 4573 4633 1 global routine ask (string, buffer, len) : novalue =
: 4574 4634 2 begin
: 4575 4635 2
: 4576 4636 2 ++
: 4577 4637 2
: 4578 4638 2 FUNCTIONAL DESCRIPTION:
: 4579 4639 2
: 4580 4640 2 Routine to prompt user for input. The input string is read
: 4581 4641 2 into the user specified buffer and the size read
: 4582 4642 2 is placed in the global INSIZE.
: 4583 4643 2
: 4584 4644 2 INPUTS:
: 4585 4645 2
: 4586 4646 2 STRING - the address of a counted ascii prompt string
: 4587 4647 2 BUFFER - address of the input buffer
: 4588 4648 2 LEN - length of the input buffer
: 4589 4649 2
: 4590 4650 2 IMPLICIT INPUTS:
: 4591 4651 2
: 4592 4652 2 none
: 4593 4653 2
: 4594 4654 2 OUTPUTS:
: 4595 4655 2
: 4596 4656 2 none
: 4597 4657 2
: 4598 4658 2 IMPLICIT OUTPUTS:
: 4599 4659 2
: 4600 4660 2 INSIZE - size of the input string
: 4601 4661 2
: 4602 4662 2 ROUTINE VALUE:
: 4603 4663 2
: 4604 4664 2 none
: 4605 4665 2
: 4606 4666 2 SIDE EFFECTS:
: 4607 4667 2
: 4608 4668 2 none
: 4609 4669 2 --
: 4610 4670 2
: 4611 4671 2 map
: 4612 4672 2 buffer : ref vector[,byte];
: 4613 4673 2
: 4614 4674 2 inrab[rab$l_pbf] = .string + 1; ! prompt string address
: 4615 4675 2 inrab[rab$b_psz] = .(.string)<0,8>; ! prompt size
: 4616 4676 2 inrab[rab$l_ubf] = .buffer; ! buffer address
: 4617 4677 2 inrab[rab$w_usz] = .len; ! buffer size
: 4618 4678 2
: 4619 4679 2
: 4620 4680 2 ! If end of file encountered on get (either ^Z from terminal or
: 4621 4681 2 ! end of file on indirect command file) then take exit path.
: 4622 4682 2
: 4623 4683 2
: 4624 4684 2 if $get (rab=inrab) eql rms$_eof
: 4625 4685 2 then exit_uaf ();
: 4626 4686 2
: 4627 4687 2 if (insize = .inrab[rab$w_rsz]) neq 0 ! get input size
: 4628 4688 2 then
```


ask - prompt terminal for input

```
: 4629      4689      3      begin
: 4630      4690      3      incru i to .insize - 1
: 4631      4691      3      do
: 4632      4692      4          begin
: 4633      4693      4              if .buffer[i] gequ 'a' and .buffer[i] lequ 'z'
: 4634      4694      4                  then buffer[i] = .buffer[i] and not %o'040';
: 4635      4695      3              end;
: 4636      4696      2      end;
: 4637      4697      1      end;
```

! Upcasing is done here because the CVT
! option does not work under batch.

0090	C2	04	52	00000000'	00	0004	00000	.ENTRY	ASK, Save R2	4633
		0094	AC		01	9E	00002	MOVAB	INSIZE, R2	
		0084	C2	04	01	C1	00009	ADDL3	#1, STRING, INRAB+48	4674
		0080	C2	08	BC	90	00010	MOVB	@STRING, INRAB+52	4675
				0C	AC	D0	00016	MOVL	BUFFER, INRAB+36	4676
				60	AC	B0	0001C	MOVW	LEN, INRAB+32	4677
					A2	9F	00022	PUSHAB	INRAB	4684
		00000000G	00		01	FB	00025	CALLS	#1, SYS\$GET	
		0001827A	8F		50	D1	0002C	CMPL	R0, #98938	
					07	12	00033	BNEQ	1\$	
		00000000V	00		00	FB	00035	CALLS	#0, EXIT_UAF	4685
			62	0082	C2	3C	0003C	MOVZWL	INRAB+34, INSIZE	4687
					24	13	00041	BEQL	5\$	
51			62		01	C3	00043	SUBL3	#1, INSIZE, R1	4690
					50	D4	00047	CLRL	I	
					17	11	00049	BRB	4\$	
		61	8F	08	BC40	91	0004B	CMPB	@BUFFER[I], #97	4693
					0D	1F	00051	BLSSU	3\$	
		7A	8F	08	BC40	91	00053	CMPB	@BUFFER[I], #122	
					05	1A	00059	BGTRU	3\$	
		08	BC40		20	8A	0005B	BICB2	#32, @BUFFER[I]	4694
					50	D6	00060	INCL	I	4690
			51		50	D1	00062	CMPL	I, R1	
					E4	1B	00065	BLEQU	2\$	
					04	00067	5\$:	RET		4697

; Routine Size: 104 bytes, Routine Base: \$CODE\$ + 2812


```
: 4639      4698 1 %sbttl 'fmt_sys_msg - output system message file message'
: 4640      4699 1 global routine fmt_sys_msg (faostr, msgid, p1) : novalue =
: 4641      4700 2 begin
: 4642      4701 2
: 4643      4702 2 ++
: 4644      4703 2
: 4645      4704 2 FUNCTIONAL DESCRIPTION:
: 4646      4705 2
: 4647      4706 2     This routine outputs an error message followed by
: 4648      4707 2     the text found in the system message file for the
: 4649      4708 2     error condition.  If the message is not found, the message
: 4650      4709 2     ID itself is printed.
: 4651      4710 2
: 4652      4711 2 INPUTS:
: 4653      4712 2
: 4654      4713 2     FAOSTR - address of counted ascii message to be printed
: 4655      4714 2     MSGID  - error number
: 4656      4715 2     P1     - the first of possibly several parameters to FAO
: 4657      4716 2
: 4658      4717 2 IMPLICIT INPUTS:
: 4659      4718 2
: 4660      4719 2     None
: 4661      4720 2
: 4662      4721 2 OUTPUTS:
: 4663      4722 2
: 4664      4723 2     None
: 4665      4724 2
: 4666      4725 2 IMPLICIT OUTPUTS:
: 4667      4726 2
: 4668      4727 2     None
: 4669      4728 2
: 4670      4729 2 ROUTINE VALUE:
: 4671      4730 2
: 4672      4731 2     None
: 4673      4732 2
: 4674      4733 2 SIDE EFFECTS:
: 4675      4734 2
: 4676      4735 2     None
: 4677      4736 2 --
: 4678      4737 2
: 4679      4738 2 local
: 4680      4739 2     buffer : vector [200, byte],      ! buffer to receive message
: 4681      4740 2     bufdsc  : vector [2, long],      ! string descriptor
: 4682      4741 2     code;      ! save return code
: 4683      4742 2
: 4684      4743 2     bufdsc[0] = 200;      ! construct string descriptor
: 4685      4744 2     bufdsc[1] = buffer;
: 4686      4745 2
: 4687      4746 2     code = $getmsg (msgid = .msgid, msglen = bufdsc[0], bufadr = bufdsc[0]);
: 4688      4747 2
: 4689      4748 2     !
: 4690      4749 2     ! Output internal message.  Then output system error or error number.
: 4691      4750 2
: 4692      4751 2     faodsc[dsc$w_length] = . (.faostr)<0,8>;      ! input string descriptor
: 4693      4752 2     faodsc[dsc$a_pointer] = .faostr+1;
: 4694      P 4753 2     $faol (ctrstr = faodsc,
: 4695      P 4754 2     outlen = outrab[ra$b$w_rsz],
```



```

: 4696      P 4755      2      outbuf = disdsc,
: 4697      4756      2      prmlst = p1);
: 4698      4757      2
: 4699      4758      2      $put (rab = outrab);
: 4700      4759      2
: 4701      4760      2      if .code egl ss$ msgnotfnd
: 4702      4761      2      then LIB$SIGNAL(UAF$_SYMSMSG2, 1, .msgid)
: 4703      4762      2      else LIB$SIGNAL(UAF$_SYMSMSG1, 1, bufdsc[0]);
: 4704      4763      1      end;

```

```
.EXTRN  SYSS$GETMSG, SYSS$FAOL
```

```

.ENTRY    FMT SYS_MSG, Save R2,R3
MOVAB     FAODSC,-R3
MOVAB     -204(SP), SP
MOVZBL    #200, BUFDSC
MOVAB     BUFFER, BUFDSC+4
MOVQ      #15, -(SP)
PUSHAB    BUFDSC
PUSHAB    BUFDSC
PUSHL     MSGID
CALLS     #5, SYSS$GETMSG
MOVL      R0, CODE
MOVZBW    @FAOSTR, FAODSC
ADDL3     #1, FAOSTR, FAODSC+4
PUSHAB    P1
PUSHAB    DISDSC
PUSHAB    OUTRAB+34
PUSHL     R3
CALLS     #4, SYSS$FAOL
PUSHAB    OUTRAB
CALLS     #1, SYSS$PUT
CMLP      CODE, #1569
BNEQ      1$
PUSHL     MSGID
PUSHL     #1
PUSHL     #UAF$_SYSMSG2
BRB       2$
PUSHL     SP
PUSHL     #1
PUSHL     #UAF$_SYSMSG1
CALLS     #3, LIB$SIGNAL
RET

```

4699
4743
4744
4746
4751
4752
4756
4758
4760
4761
4762
4763

; Routine Size: 125 bytes, Routine Base: \$CODE\$ + 287A

faout - output formatted message

```

: 4706      4764 1 %sbttl 'faout - output formatted message'
: 4707      4765 1 global routine faout (string, p1) =
: 4708      4766 2 begin
: 4709      4767 2
: 4710      4768 2 ++
: 4711      4769 2
: 4712      4770 2 FUNCTIONAL DESCRIPTION:
: 4713      4771 2
: 4714      4772 2     Routine to output a formatted string.
: 4715      4773 2
: 4716      4774 2 INPUTS:
: 4717      4775 2
: 4718      4776 2     STRING - address of a counted ASCII FAO control string.
: 4719      4777 2     P1 - the first of possibly several parameters to FAO
: 4720      4778 2
: 4721      4779 2 IMPLICIT INPUTS:
: 4722      4780 2
: 4723      4781 2     none
: 4724      4782 2
: 4725      4783 2 OUTPUTS:
: 4726      4784 2
: 4727      4785 2     none
: 4728      4786 2
: 4729      4787 2 IMPLICIT OUTPUTS:
: 4730      4788 2
: 4731      4789 2     none
: 4732      4790 2
: 4733      4791 2 ROUTINE VALUE:
: 4734      4792 2
: 4735      4793 2     FAOUT always returns FALSE, as it is often used on the
: 4736      4794 2     return from an error condition.
: 4737      4795 2
: 4738      4796 2 SIDE EFFECTS:
: 4739      4797 2
: 4740      4798 2     none
: 4741      4799 2 --
: 4742      4800 2
: 4743      4801 2
: 4744      4802 2 faodsc[dsc$w_length] = . (.string)<0,8>;      ! input string descriptor
: 4745      4803 2 faodsc[dsc$a_pointer] = .string+1;
: 4746      4804 2 $faol (ctrstr = faodsc,
: 4747      4805 2     outlen = outrab[rab$w_rsz],
: 4748      4806 2     outbuf = disdsc,
: 4749      4807 2     prmlst = p1);
: 4750      4808 2
: 4751      4809 2 $put (rab = outrab);
: 4752      4810 2
: 4753      4811 2 false
: 4754      4812 1 end;
```

```

52 00000000' 0004 00000
62 00000000' 00 9E 00002
04 BC 9B 00009
```

```

.ENTRY FAOUT, Save R2
MOVAB FAODSC, R2
MOVZBW @STRING, FAODSC
```

```

: 4765
: 4802
```


faout - output formatted message

M 7
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742 Page 174
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (38)

04 A2 04 AC

08
F8
072E

00000000G 00

000000000G 00

070c

01	C1	0000D
AC	9F	00013
A2	9F	00016
C2	9F	00019
52	DD	0001D
04	FB	0001F
C2	9F	00026
01	FB	0002A
50	D4	00031
	04	00033

```
ADDL3      #1, STRING, FAODSC+4
PUSHAB     P1
PUSHAB     DISDSC
PUSHAB     OUTRAB+34
PUSHL      R2
CALLS      #4, SYSS$FAOL
PUSHAB     OUTRAB
CALLS      #1, SYSS$PUT
CLRL       R0
RET
```

4803
4807
4809
4812

```
; Routine Size: 52 bytes,    Routine Base: $CODE$ + 28F7
```


help_uaf - help routine

```
: 4756      4813 1 %sbttl 'help_uaf - help routine'
: 4757      4814 1 global routine help_uaf : novalue =
: 4758      4815 2 begin
: 4759      4816 2
: 4760      4817 2 ++
: 4761      4818 2
: 4762      4819 2 FUNCTIONAL DESCRIPTION:
: 4763      4820 2
: 4764      4821 2     Print out the help message or messages.
: 4765      4822 2
: 4766      4823 2 INPUTS:
: 4767      4824 2
: 4768      4825 2     none
: 4769      4826 2
: 4770      4827 2 OUTPUTS:
: 4771      4828 2
: 4772      4829 2     none
: 4773      4830 2
: 4774      4831 2 ROUTINE VALUE:
: 4775      4832 2
: 4776      4833 2     none
: 4777      4834 2
: 4778      4835 2 SIDE EFFECTS:
: 4779      4836 2
: 4780      4837 2     none
: 4781      4838 2 --
: 4782      4839 2
: 4783      4840 2 map
: 4784      4841 2     cmdlindsc: vector;
: 4785      4842 2
: 4786      4843 2 local
: 4787      4844 2     line_dsc      : vector [2];
: 4788      4845 2
: 4789      4846 2 line_dsc[0] = .cmdlindsc[0];
: 4790      4847 2 line_dsc[1] = .cmdlindsc[1];
: 4791      4848 2
: 4792      4849 2
: 4793      4850 2     The first thing to do is to remove 'help' from the command line
: 4794      4851 2     and give the help routine the remainder of the command line.
: 4795      4852 2     Find the beginning of the word 'help'.
: 4796      4853 2
: 4797      4854 2 if .(.line_dsc[1])<0.8> eql ' '
: 4798      4855 2 then
: 4799      4856 2     begin
: 4800      4857 2         line_dsc[1] = ch$find_not_ch (.line_dsc[0], .line_dsc[1], ' ');
: 4801      4858 2         line_dsc[0] = .line_dsc[0] - (.line_dsc[1] - .cmdlindsc[1]);
: 4802      4859 2     end;
: 4803      4860 2
: 4804      4861 2
: 4805      4862 2     Now skip past the 'help' to the first blank (if there is one)
: 4806      4863 2
: 4807      4864 2 if ch$fail (line_dsc[1] = ch$find_ch (.line_dsc[0], .line_dsc[1], ' '))
: 4808      4865 2 then
: 4809      4866 2     |
: 4810      4867 2     |     No blank, set empty string
: 4811      4868 2
: 4812      4869 2     line_dsc[0] = 0
```


help_uaf - help routine

```
4813 2 else
4814 2
4815 2 Found a blank, set pointer to it
4816 2
4817 2 line_dsc[0] = .cmdlindsc[0] - (.line_dsc[1] - .cmdlindsc[1]);
4818 2
4819 2
4820 2 Start an interactive HELP session
4821 2
4822 2
4823 2 if not lbr$output_help (lib$put_output, 0, line_dsc,
4824 2 $descriptor('uafhelp'), 0,
4825 2 lib$get_input)
4826 2 then LIB$SIGNAL(UAF$_HELPERR);
4827 2
4828 1 end;
```

.PSECT \$SPLITS\$,NOWRT,NOEXE,2

```
70 6C 65 68 66 61 75 0088C P.AFI: .ASCII \uafhelp\
00893 .BLKB 1
00000007 00894 P.AFH: .LONG 7
00000000 00898 .ADDRESS P.AFI
```

.PSECT \$CODE\$,NOWRT,2

				000C 00000	.ENTRY	HELP UAF, Save R2,R3	4814
	5E		04	C2 00002	SUBL2	#4, SP	
	53	00000000'	00	D0 00005	MOVL	CMDLINDSC, R3	4846
			53	DD 0000C	PUSHL	R3	
	52	00000000'	00	D0 0000E	MOVL	CMDLINDSC+4, R2	4847
04	AE		52	D0 00015	MOVL	R2, LINE_DSC+4	
	20	04	BE	91 00019	CMPB	@LINE_DSC+4, #32	4854
			15	12 0001D	BNEQ	2\$	
04	BE		6E	20 3B 0001F	SKPC	#32, LINE_DSC, @LINE_DSC+4	4857
			02	12 00024	BNEQ	1\$	
			51	D4 00026	CLRL	R1	
	04	AE	51	D0 00028	1\$: MOVL	R1, LINE_DSC+4	
	50		52	AE C3 0002C	SUBL3	LINE_DSC+4, R2, R0	4858
		04	50	C0 00031	ADDL2	R0, LINE_DSC	
04	BE		6E	20 3A 00034	2\$: LOCC	#32, LINE_DSC, @LINE_DSC+4	4864
			02	12 00039	BNEQ	3\$	
			51	D4 0003B	CLRL	R1	
	04	AE	51	D0 0003D	3\$: MOVL	R1, LINE_DSC+4	
			04	12 00041	BNEQ	4\$	
			6E	D4 00043	CLRL	LINE_DSC	4869
			09	11 00045	BRB	5\$	
	50		52	AE C3 00047	4\$: SUBL3	LINE_DSC+4, R2, R0	4874
	6E		50	C1 0004C	ADDL3	R3, R0, LINE_DSC	
		00000000G	00	9F 00050	5\$: PUSHAB	LIB\$GET_INPUT	4880
			7E	D4 00056	CLRL	-(SP)	
		00000000'	00	9F 00058	PUSHAB	P.AFH	4881
		0C	AE	9F 0005E	PUSHAB	LINE_DSC	4880

UAFMAIN
V04-000

help_uaf - help routine

C 8
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 177
(39)

		00000000G	7E	D4	00061	CLRL	-(SP)	:
			00	9F	00063	PUSHAB	LIB\$PUT_OUTPUT	:
00000000G	00		06	FB	00069	CALLS	#6, LBR\$OUTPUT_HELP	:
	0D		50	E8	00070	BLBS	R0, 6\$:
		00000000G	8F	DD	00073	PUSHL	#UAF\$_HELPERR	: 4883
00000000G	00		01	FB	00079	CALLS	#1, LIB\$SIGNAL	:
			04	00080	6\$:	RET		: 4885

; Routine Size: 129 bytes, Routine Base: \$CODE\$ + 292B

exit_uaf - normal exit routine

```
: 4830      4886 1 %sbttl 'exit_uaf - normal exit routine'
: 4831      4887 1 global routine exit_uaf : novalue =
: 4832      4888 2 begin
: 4833      4889 2
: 4834      4890 2 ++
: 4835      4891 2
: 4836      4892 2 FUNCTIONAL DESCRIPTION:
: 4837      4893 2
: 4838      4894 2 Normal exit routine.
: 4839      4895 2
: 4840      4896 2 INPUTS:
: 4841      4897 2
: 4842      4898 2 none
: 4843      4899 2
: 4844      4900 2 OUTPUTS:
: 4845      4901 2
: 4846      4902 2 none
: 4847      4903 2
: 4848      4904 2 ROUTINE VALUE:
: 4849      4905 2
: 4850      4906 2 none
: 4851      4907 2
: 4852      4908 2 SIDE EFFECTS:
: 4853      4909 2
: 4854      4910 2 image exits
: 4855      4911 2 --
: 4856      4912 2
: 4857      4913 2 $close (fab = uaffab);
: 4858      4914 2
: 4859      4915 2
: 4860      4916 2 Inform user of file modifications.
: 4861      4917 2
: 4862      4918 2
: 4863      4919 2 if .modify_flag
: 4864      4920 2 then
: 4865      4921 2
: 4866      4922 2 File has been modified
: 4867      4923 2
: 4868      4924 2 LIB$SIGNAL(UAF$_DONEMSG) ! tell user all is done
: 4869      4925 2 else
: 4870      4926 2
: 4871      4927 2 Here, no modifications were made to file.
: 4872      4928 2
: 4873      4929 2 LIB$SIGNAL(UAF$_NOMODS);
: 4874      4930 2
: 4875      4931 2 if .netuaf_exists
: 4876      4932 2 then
: 4877      4933 2 begin
: 4878      4934 2 if not .netuaf_modified
: 4879      4935 2 then
: 4880      4936 2 LIB$SIGNAL(UAF$_NAFNOMODS)
: 4881      4937 2 else
: 4882      4938 2 LIB$SIGNAL(UAF$_NAFDONEMSG);
: 4883      4939 2 end;
: 4884      4940 2
: 4885      4941 2 if .rdb_exists
: 4886      4942 2 then
```


exit_uaf - normal exit routine

```
: 4887      4943      3      begin
: 4888      4944      3      if .rightslist_modified
: 4889      4945      3      then
: 4890      4946      3      |
: 4891      4947      3      |   File has been modified
: 4892      4948      3      |
: 4893      4949      3      |   LIB$SIGNAL(UAF$_RDBDONEMSG)
: 4894      4950      3      |
: 4895      4951      3      |   else
: 4896      4952      3      |   |
: 4897      4953      3      |   |   Here, no modifications were made to file.
: 4898      4954      3      |   |
: 4899      4955      3      |   |   LIB$SIGNAL(UAF$_RDBNOMODS);
: 4900      4956      3      |   |   end ;
: 4901      4957      2      |   Sexit (code = true);
: 4902      4958      1      |   end;
```

.EXTRN SYS\$EXIT

			001C 00000	.ENTRY	EXIT UAF, Save R2,R3,R4	: 4887
	54	00000000'	00 9E 00002	MOVAB	UAF\$AB, R4	
	53	00000000'	00 9E 00009	MOVAB	NETUAF_EXISTS, R3	
	52	00000000G	00 9E 00010	MOVAB	LIB\$SIGNAL, R2	
			54 DD 00017	PUSHL	R4	: 4913
00000000G	00		01 FB 00019	CALLS	#1, SYS\$CLOSE	
	08	F154	C4 E9 00020	BLBC	MODIFY_FLAG, 1\$: 4919
		00000000G	8F DD 00025	PUSHL	#UAF\$_DONEMSG	: 4924
			06 11 0002B	BRB	2\$	
		00000000G	8F DD 0002D	PUSHL	#UAF\$_NOMODS	: 4929
	62		01 FB 00033	CALLS	#1, LIB\$SIGNAL	
	16		63 E9 00036	BLBC	NETUAF_EXISTS, 5\$: 4931
	08	F158	C4 E8 00039	BLBS	NETUAF_MODIFIED, 3\$: 4934
		00000000G	8F DD 0003E	PUSHL	#UAF\$_NAFNOMODS	: 4936
			06 11 00044	BRB	4\$	
		00000000G	8F DD 00046	PUSHL	#UAF\$_NAFDONEMSG	: 4938
	62		01 FB 0004C	CALLS	#1, LIB\$SIGNAL	
	15	04	A3 E9 0004F	BLBC	RDB_EXISTS, 8\$: 4941
	08	0C	A3 E9 00053	BLBC	RIGHTSLIST_MODIFIED, 6\$: 4944
		00000000G	8F DD 00057	PUSHL	#UAF\$_RDBDONEMSG	: 4949
			06 11 0005D	BRB	7\$	
		00000000G	8F DD 0005F	PUSHL	#UAF\$_RDBNOMODS	: 4954
	62		01 FB 00065	CALLS	#1, LIB\$SIGNAL	
			01 DD 00068	PUSHL	#1	: 4957
00000000G	00		01 FB 0006A	CALLS	#1, SYS\$EXIT	
			04 00071	RET		: 4958

; Routine Size: 114 bytes, Routine Base: \$CODE\$ + 29AC

UAFMAIN
V04-000

SIGNAL_SYNTAX - Report missing qualifier

F 8
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 180
(41)

```
: 4904      4959 1 %sbttl 'SIGNAL_SYNTAX - Report missing qualifier'
: 4905      4960 1 global routine SIGNAL_SYNTAX: novalue =
: 4906      4961 2 begin
: 4907      4962 2
: 4908      4963 2     LIB$SIGNAL(UAF$_ZISQUAL);
: 4909      4964 2
: 4910      4965 1 end;
```

```
00000000G 00 00000000G 8F DD 00002
01 FB 00008
04 0000F
```

```
.ENTRY SIGNAL_SYNTAX, Save nothing
PUSHL #UAF$_ZISQUAL
CALLS #1, LIB$SIGNAL
RET
```

```
: 4960
: 4963
:
: 4965
```

; Routine Size: 16 bytes, Routine Base: \$CODE\$ + 2A1E

acc\$exit - exit and cleanup routine

```

: 4912      4966 1 %sbtll 'acc$exit - exit and cleanup routine'
: 4913      4967 1 routine acc$exit : novalue =
: 4914      4968 2 begin
: 4915      4969 2
: 4916      4970 2 |++
: 4917      4971 2
: 4918      4972 2 FUNCTIONAL DESCRIPTION:
: 4919      4973 2
: 4920      4974 2 Exit on error condition.
: 4921      4975 2
: 4922      4976 2 INPUTS:
: 4923      4977 2
: 4924      4978 2 none
: 4925      4979 2
: 4926      4980 2 OUTPUTS:
: 4927      4981 2
: 4928      4982 2 none
: 4929      4983 2 |--
: 4930      4984 2
: 4931      4985 2 $exit ();
: 4932      4986 1 end;

```

0000 00000 ACC\$EXIT:

		01 DD 00002	.WORD	Save nothing	
00000000G 00		01 FB 00004	PUSHL	#1	: 4967
		04 0000B	CALLS	#1, SYS\$EXIT	: 4985
			RET		: 4986

; Routine Size: 12 bytes, Routine Base: \$CODE\$ + 2A2E


```
4934 4987 1 %sbttl 'UAF$MOD_SYS_PWD -- modify the system password'
4935 4988 1 global routine UAF$MOD_SYS_PWD: novalue =
4936 4989 begin
4937 4990
4938 4991 |++
4939 4992
4940 4993 | Functional Description:
4941 4994 |
4942 4995 |     Modify the system password record by doing a $PUT on the UAF
4943 4996 |     with the UIF bit set for the username '<System+Password>'
4944 4997 |
4945 4998 |--
4946 4999
4947 5000 local
4948 5001
4949 5002 RBF,
4950 5003 PWD: block[DSC$K_D_BLN, byte]
4951 5004 preset([DSC$B_CLASS] = DSC$K_CLASS_D),
4952 5005 ROP;
4953 5006
4954 5007 |
4955 5008 |     Save current settings
4956 5009 |
4957 5010
4958 5011 RBF = .UAFRAB[RAB$L_RBF];
4959 5012 ROP = .UAFRAB[RAB$L_ROP];
4960 5013
4961 5014 |
4962 5015 |     Get new password and encrypt it
4963 5016 |
4964 5017
4965 5018 CLISGET_VALUE(%ascid'SYSTEM_PASSWORD', PWD);
4966 5019
4967 5020 if .PWD[DSC$W_LENGTH] neq 0 then
4968 5021     LGI$HPWD(REC_ENCRYPT_DSC, PWD, UAF$C_PURDY_V, 0, %ASCID'<System+Password>')
4969 5022 else
4970 5023     ch$fill(0, UAF$S_PWD, RECBUF[UAF$Q_PWD]);
4971 5024
4972 5025 |
4973 5026 |     Fill in fields of the UAF record
4974 5027 |
4975 5028
4976 5029 ch$copy(17, UPLIT('<System+Password>'), ' ',
4977 5030         UAF$S_USERNAME, RECBUF[UAF$T_USERNAME]);
4978 5031 RECBUF[UAF$W_SALT] = 0;
4979 5032
4980 5033 |
4981 5034 |     Modify the RAB for our needs
4982 5035 |
4983 5036
4984 5037 UAFRAB[RAB$V_UIF] = 1;
4985 5038 UAFRAB[RAB$W_RSZ] = UAF$C_LENGTH;
4986 5039 UAFRAB[RAB$L_RBF] = RECBUF;
4987 5040
4988 5041 |
4989 5042 |     Modify the system password
4990 5043 |
```



```
: 4991      5044 2
: 4992      5045 2 $PUT(RAB=UAFRAB);
: 4993      5046 2
: 4994      5047 2
: 4995      5048 2 Replace the settings
: 4996      5049 2
: 4997      5050 2
: 4998      5051 2 UAFRAB[RAB$$_RBF] = .RBF;
: 4999      5052 2 UAFRAB[RAB$$_ROP] = .ROP;
: 5000      5053 2
: 5001      5054 1 end;
```

```
44 52 4F 57 53 53 41 50 5F 4D 45 54 53 59 53 0089C P.AFK: .PSECT $PLITS$,NOWRT,NOEXE,2
      00 008AB .ASCII \SYSTEM_PASSWORD\<0>
      010E000F 008AC P.AFJ: .LONG 17694735
      00000000 008B0 .ADDRESS P.AFK
72 6F 77 73 73 61 50 2B 6D 65 74 73 79 53 3C 008B4 P.AFM: .ASCII \<System+Password>\<0><0><0>
      00 00 00 3E 64 008C3
      010E0011 008C8 P.AFL: .LONG 17694737
      00000000 008CC .ADDRESS P.AFM
72 6F 77 73 73 61 50 2B 6D 65 74 73 79 53 3C 008D0 P.AFN: .ASCII \<System+Password>\<0><0><0>
      00 00 00 3E 64 008DF
```

```
03FC 00000
59 00000000 00 9E 00002
58 00000000 00 9E 00009
5E 02000000 04 C2 00010
      04 8F DD 00013
      04 AE D4 00019
57 68 D0 0001C
56 DC A8 D0 0001F
      4200 8F BB 00023
00000000G 00 02 FB 00027
      6E B5 0002E
      16 13 00030
      1C A9 9F 00032
7E 02 7D 00035
      0C AE 9F 00038
      F940 C9 9F 0003B
00000000G 00 05 FB 0003F
      08 11 00046
08 00 6E 00 2C 00048 1$:
20 20 24 A9 FB44 C8 0004D
      F9F4 C8 00050 2$:
      FB56 C8 B4 00059
      DC A8 10 88 0005D
      FA A8 0584 8F B0 00061
```

```
.PSECT $CODE$,NOWRT,2
.ENTRY UAF$MOD_SYS_PWD, Save R2,R3,R4,R5,R6,R7,R8,-; 4988
MOVAB P.AFJ, R9
MOVAB UAFRAB+40, R8
SUBL2 #4, SP
PUSHL #3554432
CLRL PWD+4
MOVL UAFRAB+40, RBF
MOVL UAFRAB+4, ROP
PUSHR #^M<R9,SP>
CALLS #2, CLISGET_VALUE
TSTW PWD
BEQL 1$
PUSHAB P.AFL
MOVQ #2, -(SP)
PUSHAB PWD
PUSHAB REC_ENCRYPT_DSC
CALLS #5, LGISHPWD
BRB 2$
MOVCS #0, (SP), #0, #8, RECBUF+340
MOVCS #17, P.AFN, #32, #32, RECBUF+4
CLRW RECBUF+358
BISB2 #16, UAFRAB+4
MOVW #1412, UAFRAB+34
```

```
5004
5011
5012
5018
5020
5021
5023
5030
5031
5037
5038
```


UAFMAIN
V04-000

UAF\$MOD_SYS_PWD -- modify the system password

J 8
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1
Page 184
(43)

	68	F9F0	C8	9E	00067
		D8	A8	9F	0006C
00000000G	00		01	FB	0006F
	68		57	D0	00076
DC	A8		56	D0	00079
			04	0007D	

MOVAB	RECBUF, UAFRAB+40
PUSHAB	UAFRAB
CALLS	#1, SYSSPUT
MOVL	RBF, UAFRAB+40
MOVL	ROP, UAFRAB+4
RET	

:	5039
:	5045
:	
:	5051
:	5052
:	5054

; Routine Size: 126 bytes, Routine Base: \$CODE\$ + 2A3A

security_audit - perform a security audit

```

5003 5055 1 %sbttl 'security_audit - perform a security audit'
5004 5056 1 routine security_audit (code, old_user) : novalue =
5005 5057 2 begin
5006 5058 3
5007 5059 3 ++
5008 5060 3
5009 5061 3 FUNCTIONAL DESCRIPTION:
5010 5062 3
5011 5063 3     Perform a security audit, if needed.
5012 5064 3
5013 5065 3 INPUTS:
5014 5066 3
5015 5067 3     CODE - Security audit record id
5016 5068 3     OLD_USER - Old username (optional depending on the record id)
5017 5069 3
5018 5070 3 IMPLICIT INPUTS:
5019 5071 3
5020 5072 3     PCB_STS - This process's PCB status
5021 5073 3     UAF$GQ_SYSUAFF - SYSUAF fields modified
5022 5074 3
5023 5075 3 OUTPUTS:
5024 5076 3
5025 5077 3     none
5026 5078 3
5027 5079 3 IMPLICIT OUTPUTS:
5028 5080 3
5029 5081 3     none
5030 5082 3
5031 5083 3 ROUTINE VALUE:
5032 5084 3
5033 5085 3     none
5034 5086 3
5035 5087 3 SIDE EFFECTS:
5036 5088 3
5037 5089 3     none
5038 5090 3
5039 5091 3 --
5040 5092 3
5041 5093 3 external routine
5042 5094 3     nsa$event_audit;                ! Kernel mode auditing routine
5043 5095 3
5044 5096 3 external
5045 5097 3     nsa$gr_alarmvec : block [,byte], ! Security audit alarm vector
5046 5098 3     nsa$gr_journvec : block [,byte]; ! Security audit journal vector
5047 5099 3
5048 5100 3 macro
5049 5101 3     add_quad_packet(type, a_quad) = ! Add a quadword packet to list
5050 5102 3     begin
5051 5103 3         (.arglist_ptr)<0,16> = %name('nsa$k_pkttyp_', type);
5052 5104 3         arglist_ptr = .arglist_ptr + 2;
5053 5105 3         (.arglist_ptr)<0,16> = nsa$k_arg_mech_quad;
5054 5106 3         arglist_ptr = .arglist_ptr + 2;
5055 5107 3         (.arglist_ptr)<0,32> = (.a_quad)<0,32>;
5056 5108 3         arglist_ptr = .arglist_ptr + 4;
5057 5109 3         (.arglist_ptr)<0,32> = (.a_quad)<32,32>;
5058 5110 3         arglist_ptr = .arglist_ptr + 4;
5059 5111 3         arglist[nsa$b_arg_pktnum] = .arglist[nsa$b_arg_pktnum] + 1;

```



```

: 5060      5112  2      end%,
: 5061      5113  2      add_descr_packet(type, len, ptr) = ! Add a descriptor packet to list
: 5062      5114  2      begin
: 5063      5115  2      (.arglist_ptr)<0,16> = %name('nsa$k_pkttyp_', type);
: 5064      5116  2      arglist_ptr = .arglist_ptr + 2;
: 5065      5117  2      (.arglist_ptr)<0,16> = nsa$k_arg_mech_descr;
: 5066      5118  2      arglist_ptr = .arglist_ptr + 2;
: 5067      5119  2      (.arglist_ptr)<0,32> = len;
: 5068      5120  2      arglist_ptr = .arglist_ptr + 4;
: 5069      5121  2      (.arglist_ptr)<0,32> = ptr;
: 5070      5122  2      arglist_ptr = .arglist_ptr + 4;
: 5071      5123  2      arglist[nsa$b_arg_pktnum] = .arglist[nsa$b_arg_pktnum] + 1;
: 5072      5124  2      end%;
: 5073      5125  2
: 5074      5126  2      local
: 5075      5127  2      arglist      : block      ! Argument list for NSA$EVENT_AUDIT
: 5076      5128  2      [nsa$k_arghdr_length + ((2 + 2 + 8) * 6), byte],
: 5077      5129  2      arglist_ptr;      ! Packet fill in pointer
: 5078      5130  2
: 5079      5131  2      ch$fill(0, %allocation(arglist), arglist); ! Clear out the argument list
: 5080      5132  2
: 5081      5133  2      if .nsa$gr_alarmvec[nsa$v_evt_uaf]      ! If alarm auditing,
: 5082      5134  2      then arglist[nsa$v_arg_flag_alarm] = true; ! perform alarm audit
: 5083      5135  2
: 5084      5136  2      if .nsa$gr_journvec[nsa$v_evt_uaf]      ! If journal auditing,
: 5085      5137  2      then arglist[nsa$v_arg_flag_journ] = true; ! perform journal audit
: 5086      5138  2
: 5087      5139  2      if .pcb_sts[$bitposition(pcb$v_secaudit)] ! If mandatory auditing,
: 5088      5140  2      then arglist[nsa$v_arg_flag_mandy] = true; ! perform mandatory audit
: 5089      5141  2
: 5090      5142  2      if .arglist[nsa$b_arg_flag] eql 0      ! If no audit requested,
: 5091      5143  2      then return;      ! simply exit
: 5092      5144  2
: 5093      5145  2      arglist[nsa$l_arg_id] = .code;      ! Set audit record type/subtype
: 5094      5146  2
: 5095      5147  2      arglist_ptr = arglist[nsa$t_arg_list]; ! Address packet(s) in arg list
: 5096      5148  2
: 5097      5149  2      if .arglist[nsa$w_arg_type] eql nsa$k_rectyp_sysuaf
: 5098      5150  2      then      ! For SYSUAF records...
: 5099      5151  2      begin
: 5100      5152  2      if .arglist[nsa$w_arg_subtype] neq nsa$k_rectyp_sysuaf_del
: 5101      5153  2      then
: 5102      5154  2      add_quad_packet(sysuaff, uaf$gq_sysuaff);
: 5103      5155  2      add_descr_packet(username,
: 5104      5156  2      namelen(uaf$s_username, recbuf[uaf$t_username]),
: 5105      5157  2      recbuf[uaf$t_username]);
: 5106      5158  2      if .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_sysuaf_cop
: 5107      5159  2      or .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_sysuaf_ren
: 5108      5160  2      then
: 5109      5161  2      add_descr_packet(username,
: 5110      5162  2      namelen(uaf$s_username, .old_user),
: 5111      5163  2      .old_user);
: 5112      5164  2      end
: 5113      5165  2      else      ! For NETUAF records...
: 5114      5166  2      begin
: 5115      5167  2      add_descr_packet(nodenam,
: 5116      5168  2      namelen(naf$s_node, netbuf[naf$t_node]),
```



```
.. 5117      5169      3      netbuf[naf$t_node]);
5118      P 5170      3      add_descr_packet(username,
5119      P 5171      3      namelen(naf$s_remuser, netbuf[naf$t_remuser]),
5120      5172      3      netbuf[naf$t_remuser]);
5121      P 5173      3      add_descr_packet(username,
5122      P 5174      3      namelen(naf$s_localuser, netbuf[naf$t_localuser]),
5123      5175      3      netbuf[naf$t_localuser]);
5124      5176      3      if .arglist[nsa$w_arg_subtype] eql nsa$k_rectyp_netuaf_mod
5125      5177      3      then
5126      5178      3      begin
5127      P 5179      4      add_descr_packet(nodenam,
5128      P 5180      4      namelen(naf$s_node, netbuf[naf$t_node]),
5129      5181      4      netbuf[naf$t_node]);
5130      P 5182      4      add_descr_packet(username,
5131      P 5183      4      namelen(naf$s_remuser, netbuf[naf$t_remuser]),
5132      5184      4      netbuf[naf$t_remuser]);
5133      P 5185      4      add_descr_packet(username,
5134      P 5186      4      namelen(uaf$s_username, .old_user),
5135      5187      4      .old_user);
5136      5188      3      end;
5137      5189      3      end;
5138      5190      2      arglist[nsa$l_arg_count] = (.arglist_ptr - (arglist + 4)) / 4; ! Set # args
5139      5191      2      $cmkrnl(routin = nsa$event_audit, arglst = arglist); ! Do the security audit
5140      5192      2
5141      5193      2
5142      5194      2
5143      5195      1 end;
```

```
.EXTRN  NSASEVENT_AUDIT
.EXTRN  NSA$GR_ALARMVEC
.EXTRN  NSA$GR_JOURNVEC
.EXTRN  SYSSCMRNL
```

007C 00000 SECURITY_AUDIT:

0054	8F	00	56	00000000'	00	9E	00002	WORD	Save R2,R3,R4,R5,R6	5056
			5E	AC	AE	9E	00009	MOVAB	NETBUF, R6	
			6E		00	2C	0000D	MOVAB	-84(SP), SP	
					6E		00014	MOVCS	#0, (SP), #0, #84, ARGLIST	5131
		04	00000000G	00	02	E1	00015	BBC	#2, NSA\$GR_ALARMVEC, 1\$	5133
			08	AE	01	88	0001D	BISB2	#1, ARGLIST+8	5134
		04	00000000G	00	02	E1	00021	BBC	#2, NSA\$GR_JOURNVEC, 2\$	5136
			08	AE	02	88	00029	BISB2	#2, ARGLIST+8	5137
		04	00000000'	00	03	E1	0002D	BBC	#3, PCB_STS+3, 3\$	5139
			08	AE	04	88	00035	BISB2	#4, ARGLIST+8	5140
				08	AE	95	00039	TSTB	ARGLIST+8	5142
					01	12	0003C	BNEQ	4\$	
						04	0003E	RET		
		04		AE	04	AC	D0	MOV	CODE, ARGLIST+4	5145
			52	0C	AE	9E	00044	MOVAB	ARGLIST+12, ARGLIST_PTR	5147
			02	04	AE	B1	00048	CMPW	ARGLIST+4, #2	5149
					3C	12	0004C	BNEQ	6\$	
			02	06	AE	B1	0004E	CMPW	ARGLIST+6, #2	5152
					0F	13	00052	BEQL	5\$	
			82	00030012	8F	D0	00054	MOVL	#196626, (ARGLIST_PTR)+	5154

		82	F9F8	C6	7D	0005B	MOVQ	UAF\$GQ_SYSUAFF, (ARGLIST_PTR)+		
			09	AE	96	00060	INCB	ARGLIST+9		
FAB0	C6	82	0004000A	8F	D0	00063	5\$:	MOVL	#262154, (ARGLIST_PTR)+	5157
	82	20		20	3A	0006A	LOCC	#32, #32, RECBUF+4		
		20		50	C3	00070	SUBL3	R0, #32, (ARGLIST_PTR)+		
		82	FAB0	C6	9E	00074	MOVAB	RECBUF+4, (ARGLIST_PTR)+		
			09	AE	96	00079	INCB	ARGLIST+9		
		04	06	AE	B1	0007C	CMPW	ARGLIST+6, #4	5158	
				7D	13	00080	BEQL	8\$		
		05	06	AE	B1	00082	CMPW	ARGLIST+6, #5	5159	
				49	12	00086	BNEQ	7\$		
				75	11	00088	BRB	8\$	5163	
		82	00040009	8F	D0	0008A	6\$:	MOVL	#262153, (ARGLIST_PTR)+	5169
	66	20		20	3A	00091	LOCC	#32, #32, NETBUF		
	82	20		50	C3	00095	SUBL3	R0, #32, (ARGLIST_PTR)+		
		82		66	9E	00099	MOVAB	NETBUF, (ARGLIST_PTR)+		
			09	AE	96	0009C	INCB	ARGLIST+9		
		82	0004000A	8F	D0	0009F	MOVL	#262154, (ARGLIST_PTR)+	5172	
20	A6	20		20	3A	000A6	LOCC	#32, #32, NETBUF+32		
	82	20		50	C3	000AB	SUBL3	R0, #32, (ARGLIST_PTR)+		
		82	20	A6	9E	000AF	MOVAB	NETBUF+32, (ARGLIST_PTR)+		
			09	AE	96	000B3	INCB	ARGLIST+9		
		82	0004000A	8F	D0	000B6	MOVL	#262154, (ARGLIST_PTR)+	5175	
40	A6	20		20	3A	000BD	LOCC	#32, #32, NETBUF+64		
	82	20		50	C3	000C2	SUBL3	R0, #32, (ARGLIST_PTR)+		
		82	40	A6	9E	000C6	MOVAB	NETBUF+64, (ARGLIST_PTR)+		
			09	AE	96	000CA	INCB	ARGLIST+9		
		03	06	AE	B1	000CD	CMPW	ARGLIST+6, #3	5176	
				43	12	000D1	7\$:	BNEQ	9\$	
		82	00040009	8F	D0	000D3	MOVL	#262153, (ARGLIST_PTR)+	5181	
	66	20		20	3A	000DA	LOCC	#32, #32, NETBUF		
	82	20		50	C3	000DE	SUBL3	R0, #32, (ARGLIST_PTR)+		
		82		66	9E	000E2	MOVAB	NETBUF, (ARGLIST_PTR)+		
			09	AE	96	000E5	INCB	ARGLIST+9		
		82	0004000A	8F	D0	000E8	MOVL	#262154, (ARGLIST_PTR)+	5184	
20	A6	20		20	3A	000EF	LOCC	#32, #32, NETBUF+32		
	82	20		50	C3	000F4	SUBL3	R0, #32, (ARGLIST_PTR)+		
		82	20	A6	9E	000F8	MOVAB	NETBUF+32, (ARGLIST_PTR)+		
			09	AE	96	000FC	INCB	ARGLIST+9		
		82	0004000A	8F	D0	000FF	8\$:	MOVL	#262154, (ARGLIST_PTR)+	5187
08	BC	20		20	3A	00106	LOCC	#32, #32, @OLD USER		
	82	20		50	C3	0010B	SUBL3	R0, #32, (ARGLIST_PTR)+		
		82	08	AC	D0	0010F	MOVL	OLD USER, (ARGLIST_PTR)+		
			09	AE	96	00113	INCB	ARGLIST+9		
		50	04	AE	9E	00116	9\$:	MOVAB	ARGLIST+4, R0	5191
		52		50	C2	0011A	SUBL2	R0, R2		
6E		52		04	C7	0011D	DIVL3	#4, R2, ARGLIST		
				5E	DD	00121	PUSHL	SP	5193	
			00000000G	00	9F	00123	PUSHAB	NSA\$EVENT AUDIT		
				02	FB	00129	CALLS	#2, SYSS\$CMKRN	5195	
				04	00	00130	RET			

; Routine Size: 305 bytes, Routine Base: \$CODE\$ + 2AB8

UAFMAIN
V04-000

security_audit - perform a security audit

: 5145
: 5146

5196 1 end
5197 0 eludom

B 9
16-Sep-1984 02:16:54
14-Sep-1984 13:21:22
! End of module

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[UAF.SRC]UAFMAIN.B32;1 (45)
Page 189

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	2276	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$OWNS	4364	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$GLOBALS	2032	NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	11241	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
. ABS .	0	NOVEC,NOWRT,NORD ,NOEXE,NOSHR, LCL, ABS, CON,NOPIC,ALIGN(0)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	300	1	1000	00:02.0

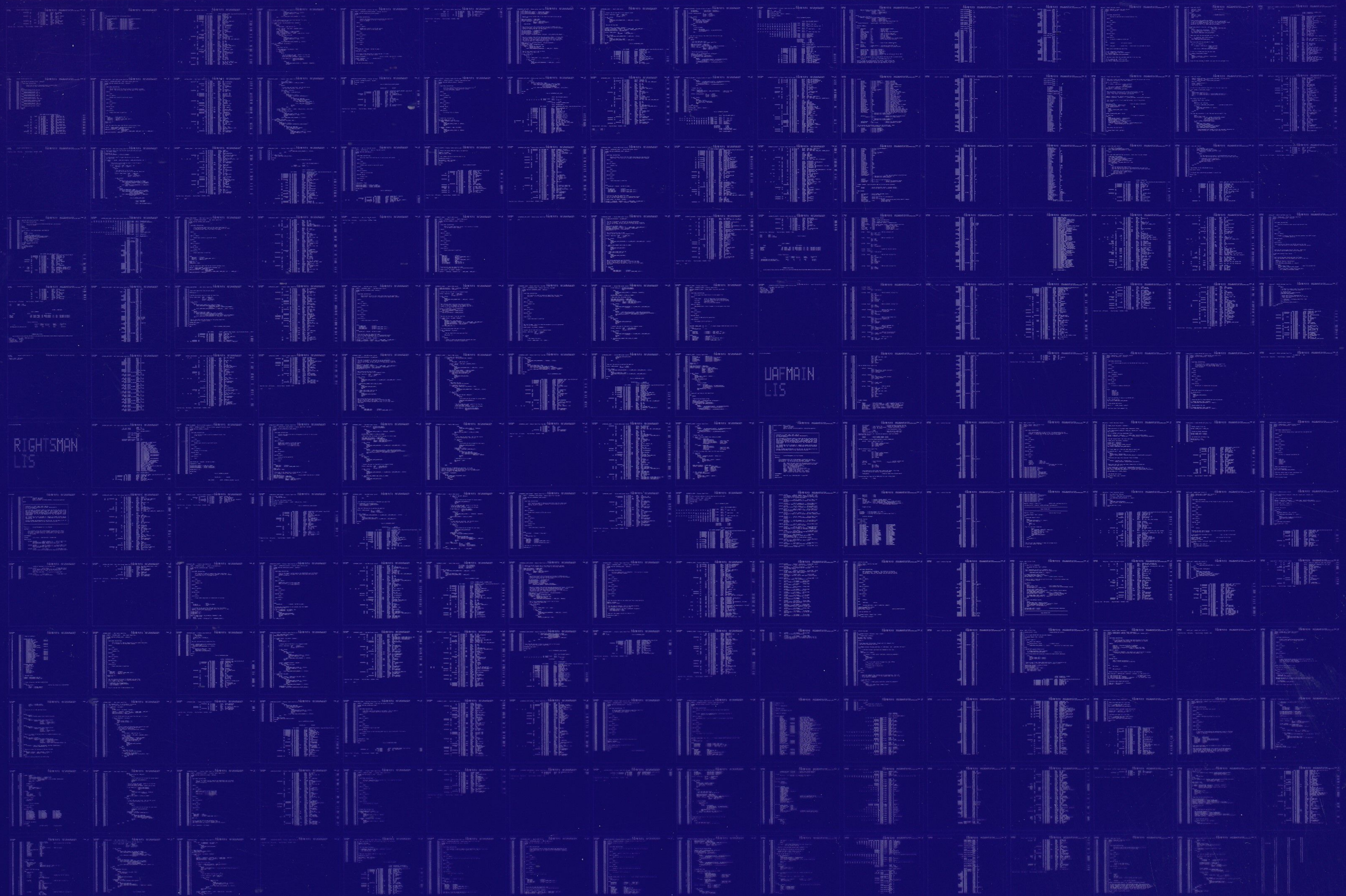
COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:UAFMAIN/CBJ=OBJ\$:UAFMAIN MSRC\$:UAFMAIN/UPDATE=(ENH\$:UAFMAIN)

; Size: 11241 code + 8672 data bytes
; Run Time: 03:09.3
; Elapsed Time: 04:20.7
; Lines/CPU Min: 1646
; Lexemes/CPU-Min: 26564
; Memory Used: 654 pages
; Compilation Complete

0406 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY



0407 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY

